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Adapting J.S. Bach's Solo Violin Sonatas and Partitas for the Marimba: Broken Chord and Arpeggio Performance Practices

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The University of Southern Mississippi

ADAPTING J. S. BACH'S SOLO VIOLIN SONATAS AND PARTITAS FOR THE
MARIMBA: BROKEN CHORD AND ARPEGGIO PERFORMANCE PRACTICES

by

Jason Eugene Mathena

Abstract of a Dissertation
Submitted to the Graduate School
of The University of Southern Mississippi
in Partial Fulfillment of the Requirements
for the Degree of Doctor of Musical Arts

May 2013

ABSTRACT

ADAPTING J. S. BACH'S SOLO VIOLIN SONATAS AND PARTITAS FOR THE MARIMBA: BROKEN CHORD AND ARPEGGIO PERFORMANCE PRACTICES

by Jason Eugene Mathena

May 2013

This purpose of this study is to provide the keyboard percussionist with information and examples for breaking chords and properly executing arpeggio passages in J. S. Bach's solo violin Sonatas and Partitas. Primary sources included Baroque treatises on performance practice and recent scholarship of the past one hundred years. Various editions of the Sonatas and Partitas were surveyed for this document but, in the end, only Bach's autograph manuscript and Gunther Hausswald's critical edition were used for the musical examples as well as the marimba transcriptions included in appendices.

Topics covered are appropriate places to break chords and the various methods that can be employed. These decisions are grounded in historical practices, idiomatic specificities, and my own unprecedented ideas on how to enhance the music. Regarding arpeggio passages, I present a number of realizations on familiar passages, such as those from the G minor *Fuga*, *Ciaccona*, and C major *Fuga*, as well as some other phrases which have historically not been arpeggiated. This document will provide the marimbist with choices but also with information to make different choices based on the music itself and the limitations of the marimba.

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Approved:

John Wooton
Director

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Dean of the Graduate School

May 2013

DEDICATION

This study would not have been possible without the encouragement, instruction, and information from the late Dana Ragsdale. She provided the guidance and inspiration to keep this study moving forward. I will forever be indebted to her, so therefore, I dedicate this paper to her. Her wisdom will forever be a part of me and I hope to pass it on to future generations. May she rest in peace.

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TABLE OF CONTENTS

ABSTRACT	ii
DEDICATION.....	iii
ACKNOWLEDGMENTS.....	iv
LIST OF MUSICAL EXAMPLES.....	vii
LIST OF MUSICAL FIGURES.....	xii
LIST OF CHARTS.....	xiii
CHAPTER	
I. INTRODUCTION.....	1
Terminology	
Purpose of Study	
Transcription	
Assumptions	
General Performance Suggestions	
II. BROKEN CHORDS.....	12
Parameter 1. Chords can be broken but not always	
Parameter 2. Chords can be broken when there is enough space	
Parameter 3. Broken chords should not distort the notated rhythm	
Parameter 4. If a passage is melody plus accompaniment, chords should be broken sparingly	
III. VARIOUS APPROACHES TO BREAKING CHORDS.....	30
IV. ARPEGGIO PASSAGES.....	61
<i>Fuga</i> from Sonata I, BWV 1001	
<i>Tempo di Borea</i> from Partita I, BWV 1002	
<i>Gavotte en Rondeau</i> from Partita III, BWV 1006	
<i>Fuga</i> from Sonata III, BWV 1005	
<i>Ciaccona</i> from Partita II, BWV 1004	

V. CONCLUSION.....	96
APPENDIXES.....	98
BIBLIOGRAPHY.....	148

LIST OF MUSICAL EXAMPLES

Musical Example

1. *Ciaccona* from Partita II, BWV 1004, mm. 1-8 by J. S. Bach, arr. J. Mathena.....19
2. *Adagio* from Sonata I, BWV 1001, mm. 1-2 by J. S. Bach, arr. J. Mathena..... 20
3. *Adagio* from Sonata III, BWV 1005, mm. 1-10 by J. S. Bach, arr. J. Mathena.....22
4. *Adagio* from Sonata III, BWV 1005, mm. 39-42 by J. S. Bach, arr. J. Mathena... 23
5. *Fuga* from Sonata I, BWV 1001, mm. 30-4 by J. S. Bach, arr. J. Mathena..... 23
6. *Fuga* from Sonata I, BWV 1001, mm. 77-86 by J. S. Bach, arr. J. Mathena..... 24
7. *Siciliana* from Sonata I, BWV 1001, mm. 1-10 by J. S. Bach, arr. J. Mathena.....26
8. *Siciliana* from Sonata I, BWV 1001, mm. 15-6 by J. S. Bach, arr. J. Mathena.....27
9. *Andante* from Sonata II, BWV 1003, mm. 1-8 by J. S. Bach, arr. J. Mathena..... 28
10. *Andante* from Sonata II, BWV 1003, mm. 9-11 by J. S. Bach, arr. J. Mathena.... 28
11. *Andante* from Sonata II, BWV 1003, mm. 24-7 by J. S. Bach, arr. J. Mathena.... 29
12. *Fuga* from Sonata I, BWV 1001, mm. 30-4 by J. S. Bach, arr. J. Mathena..... 31
13. *Fuga* from Sonata I, BWV 1001, mm. 93-4 by J. S. Bach, arr. J. Mathena..... 32
14. *Tempo di Borea* from Partita I, BWV 1002, mm. 61-8 by J. S. Bach, arr.
J. Mathena.....32
15. *Sarabande* from Partita I, BWV 1002, mm. 15-22 by J. S. Bach, arr. J. Mathena....
..... 33
16. *Sarabanda* from Partita II, BWV 1004, mm. 1-9 by J. S. Bach, arr. J. Mathena.. 33
17. *Ciaccona* from Partita II, BWV 1004, mm. 9-12 by J. S. Bach, ed. Carl Flesch.. 35

18.	<i>Ciaccona</i> from Partita II, BWV 1004, mm. 9-12 by J. S. Bach, reduction by Carl Flesch.....	35
19.	<i>Ciaccona</i> from Partita II, BWV 1004, mm. 9-12 by J. S. Bach, reduction by Carl Flesch.....	35
20.	<i>Ciaccona</i> from Partita II, BWV 1004, mm. 9-11 by J. S. Bach, ed. Carl Flesch...	36
21.	<i>Ciaccona</i> from Partita II, BWV 1004, mm. 9-16 by J. S. Bach, arr. J. Mathena...	37
22.	<i>Ciaccona</i> from Partita II, BWV 1004, mm. 9-16 by J. S. Bach, rhythmic approximation by J. Mathena.....	37
23.	<i>Adagio</i> from Sonata I, BWV 1001, mm. 10-1 by J. S. Bach, arr. J. Mathena.....	38
24.	<i>Tempo di Borea</i> from Partita I, BWV 1002, mm. 1-6 by J. S. Bach, arr. J. Mathena.....	43
25.	<i>Sarabanda</i> from Partita II, BWV 1004, mm. 20-3 by J. S. Bach, arr. J. Mathena....	43
26.	<i>Fuga</i> from Sonata I, BWV 1001, mm. 30-4 by J. S. Bach, arr. J. Mathena.....	44
27.	<i>Fuga</i> from Sonata I, BWV 1001, mm. 30-4 by J. S. Bach, rhythmic approximation by J. Mathena.....	45
28.	<i>Sarabande</i> from Partita I, BWV 1002, mm. 15-22 by J. S. Bach, arr. J. Mathena....	45
29.	<i>Ciaccona</i> from Partita I, BWV 1004, mm. 125-32 by J. S. Bach, arr. J. Mathena...	46
30.	<i>Sarabanda</i> from Partita II, BWV 1004, mm. 1-9 by J. S. Bach, arr. J. Mathena..	47
31.	<i>Tempo di Borea</i> from Partita I, BWV 1002, mm. 1-6 by J. S. Bach, arr. J. Mathena.....	50
32.	<i>Sarabande</i> from Partita I, BWV 1002, mm. 15-22 by J. S. Bach, arr. J. Mathena....	50
33.	<i>Ciaccona</i> from Partita II, BWV 1004, mm. 193-200 by J. S. Bach, arr. J. Mathena.....	51

34.	<i>Fuga</i> from Sonata I, BWV 1001, mm. 1-8 by J. S. Bach, arr. J. Mathena.....	52
35.	<i>Fuga</i> from Sonata III, BWV 1006, mm. 1-14 by J. S. Bach, arr. J. Mathena.....	53
36.	<i>Fuga</i> from Sonata III, BWV 1005, mm. 59-65 by J. S. Bach, arr. and analyzed by J. Mathena.....	54
37.	<i>Sarabanda</i> from Partita II, BWV 1004, mm. 20-3 by J. S. Bach, arr. J. Mathena....	55
38.	<i>Fuga</i> from Sonata III, BWV 1005, mm. 130-6 by J. S. Bach, arr. J. Mathena.....	55
39.	<i>Sarabanda</i> from Partita II, BWV 1004, mm. 13-5 by J. S. Bach, arr. J. Mathena....	56
40.	<i>Fuga</i> from Sonata I, BWV 1001, mm. 84-6 by J. S. Bach, arr. J. Mathena.....	57
41.	<i>Adagio</i> from Sonata I, BWV 1001, mm. 1-2 by J. S. Bach, arr. J. Mathena.....	57
42.	<i>Andante</i> from Sonata II, BWV 1003, mm. 1-11 by J. S. Bach, arr. J. Mathena....	58
43.	<i>Menuet I</i> from Partita III, BWV 1006, mm. 27-34 by J. S. Bach, arr. J. Mathena....	58
44.	<i>Ciaccona</i> from Partita II, BWV 1004, mm. 185-92 by J. S. Bach, arr. J. Mathena..	59
45.	<i>Fuga</i> from Sonata I, BWV 1001, mm. 33-41 by J. S. Bach.....	62
46.	<i>Fuga</i> from Sonata I, BWV 1001, mm. 35-41 by J. S. Bach transposed down one octave by J. Mathena.....	64
47.	<i>Fuga</i> from Sonata I, BWV 1001, mm. 35-41 by J. S. Bach, arr. J. Mathena.....	65
48.	<i>Fuga</i> from Sonata I, BWV 1001, mm. 35-41 by J. S. Bach, arr. J. Mathena.....	66
49.	<i>Tempo di Borea</i> from Partita I, BWV 1002, mm. 21-4 by J. S. Bach, arr. J. Mathena.....	67
50.	<i>Tempo di Borea</i> from Partita I, BWV 1002, mm. 21-4 by J. S. Bach, transposed down one octave by J. Mathena.....	67

51.	<i>Gavotte en Rondeau</i> from Partita III, BWV 1006, mm. 25-35 by J. S. Bach, transposed down one octave by J. Mathena.....	68
52.	<i>Gavotte en Rondeau</i> from Partita III, BWV 1006, mm. 25-35 by J. S. Bach, arr. J. Mathena.....	69
53.	<i>Gavotte en Rondeau</i> from Partita III, BWV 1006, mm. 82-8, J. S. Bach, arr. J. Mathena.....	70
54.	<i>Fuga</i> from Sonata III, BWV 1005, mm. 55-8 by J. S. Bach, transposed down one octave by J. Mathena.....	70
55.	<i>Fuga</i> from Sonata III, BWV 1005, mm. 55-8, J. S. Bach, arr. J. Mathena.....	71
56.	<i>Fuga</i> from Sonata III, BWV 1005, mm. 186-200 by J. S. Bach, transposed down one octave by J. Mathena.....	72
57.	<i>Fuga</i> from Sonata III, BWV 1005, mm. 186-200 by J. S. Bach, arr. J. Mathena..	72
58.	<i>Fuga</i> ” from Sonata III, BWV 1005, mm. 273-87 by J. S. Bach, transposed down one octave by J. Mathena.....	73
59.	<i>Fuga</i> from Sonata III, BWV 1005, mm. 273-87 by J. S. Bach, arr. J. Mathena....	73
60.	J. S. Bach, “ <i>Ciaccona</i> ” from Partita II, BWV 1004, mm. 89-91 by J. S. Bach.....	74
61.	Study No. 5 for the Left Hand, mm. 89-90 by Johannes Brahms.....	75
62.	<i>Chaconne</i> in D moll, mm. 87-122 by J. S. Bach, arr. Frederico Busoni.....	76
63.	Prelude in A Minor, BWV 894, mm. 77-85 by J. S. Bach, reduction by Heinrich Schenker.....	83
64.	Prelude in A Minor, BWV 894, mm. 77-85 by J. S. Bach.....	83
65.	<i>Ciaccona</i> from Partita II, BWV 1004, mm. 89-120 by J. S. Bach, transposed down one octave by J. Mathena.....	85
66.	<i>Ciaccona</i> from Partita II, BWV 1004, mm. 89-120 by J. S. Bach, arr. J. Mathena... ..	85

67.	<i>Ciaccona</i> from Partita II, BWV 1004, mm. 201-8 by J. S. Bach, realized by Jaap Schröder.....	90
68.	<i>Ciaccona</i> from Partita II, BWV 1004, mm. 194-208 by J. S. Bach.....	92
69.	<i>Ciaccona</i> from Sonata I, BWV 1004, mm. 194-208 by J. S. Bach, arr. J. Mathena..	92
70.	<i>Ciaccona</i> from Sonata I, BWV 1004, mm. 194-208 by J. S. Bach, arr. J. Mathena..	93
71.	<i>Ciaccona</i> from Partita II, BWV 1004, mm. 253-7 by J. S. Bach, arr. J. Mathena.....	94

LIST OF MUSICAL FIGURES

Musical Figures

1. Notated chord and *two-and-two* execution..... 7
2. Recurring rhythm of the *Adagio* from Sonata III, BWV 1005 by J. S. Bach..... 21
3. Recurring rhythm of mm. 9-16 of the *Ciaccona* from Partita II, BWV 1004 by J. S. Bach..... 35
4. Dance rhythm of the *bourée*..... 49

LIST OF CHARTS

Charts

1. *Chart 1.* Permutations of all possible combinations of dyads, triads, and tetrads..... 38
.....

CHAPTER I

INTRODUCTION

Bach's solo violin works have been a staple of the violin repertoire since their publication in 1803. For over two centuries, composers and performers alike have crafted transcriptions and arrangements, with and without accompaniments, of the sonatas and partitas. Even Bach arranged various movements for other instruments.¹ To help the performer and transcriber, this document will discuss two similar performance aspects, broken chords and arpeggios, as they would be interpreted and performed on the marimba. My own transcriptions will serve as the musical examples. Complete transcriptions of selected movements can be found in Appendix B.

Terminology

Before one attempts to read this paper, a standard verbiage regarding chords, arpeggios, and percussion vocabulary must be established for one to understand this paper. As nouns, the terms *arpeggio* and *broken chord* will be used to delineate two separate ideas but *arpeggiate* as a verb will be used to describe both. Chords, executed in a broken manner, were not considered arpeggiated in the Baroque but in post-Baroque studies, the term *arpeggio* has been used when discussing broken chords as well as traditional arpeggiated passages. *Arpeggio* was derived from the word *harp* because a harpist must arpeggiate all chords and therefore arpeggios are meant to *harp-like*. For the purpose of this paper, one primary distinction between broken chords and arpeggios will

¹Bach arranged both the G minor *Fuga* and E major *Preludio* for guitar and Sonata II for organ.

serve as the defining characteristic—broken chords are unmetered and arpeggios are metered with a rhythm that can be quantized.

Regarding percussion terminology, a few terms must be addressed to better aid the reader. The term *roll* will be used as a verb to designate breaking chords, but in the percussion world, it is typically associated with alternating strokes between limbs or mallets producing successive repetitions on any given surface sometimes used to emulate a long, sustained pitch or sound,. *Tremolo*, a more accurate and universally accepted term for repetitive repercussions, will be used when discussing the percussion act of *rolling*. *Stickings* will be limited to *right hand* or *left hand* and 1, 2, 3, 4 for marimba mallets from left to right. Finally, *marimbist* will refer to one who plays the marimba but it will be used interchangeably with the more generic term, *keyboardist*.

Purpose of Study

Many percussionists have transcribed, arranged, or recorded works of Bach, and the violin sonatas, partitas, and cello suites have become staples of solo keyboard percussion repertoire. Early in the twentieth century, multiple keyboard mallets in one hand were being cultivated as a viable solo technique. Because of its usefulness, two mallets in each hand eventually became the most widespread multi-mallet technique. With no repertoire of significance, percussionists arranged and transcribed music from the common practice period, and over time, solo string compositions became the sources of arrangements and transcriptions.² This study is specifically for the marimbist who wishes to execute broken chords and arpeggios in a historically informed manner with

²Four strings on the violin and cello allowed for an easy transference to keyboard percussion instruments played with four mallets.

artistry and creativity. Selections from the solo violin works of J. S. Bach will serve as examples for application.

Bach's sonatas and partitas for solo violin present several challenges to performance practice including the interpretation of three- and four-note chords. The dilemma arises from one simple constant—an orchestral string instrument can only sound two strings simultaneously with ease, three in some cases, but not without difficulty and abrasiveness, and never four.³ Consequently, performers and scholars have considered how Bach might have intended to execute the contrapuntal portions of the sonatas and partitas.

While bowed instrumentalists have the limited ability to play three- and four-voice chords, keyboardists have choice. Not only does the keyboard player have the ability to play dyads, triads, tetrads, etc. without rolling or breaking them, he also has the capability of breaking or rolling them in a number of ways that may or may not be possible for a string player. The dilemma of choice is further heightened by another aspect and that is appropriateness. All musical aspects, rhythm, dynamics, mood, tempo, technical limitations, just to mention a few, determine when, where, and how to break chords. This is what keyboard players must take into account. String players also use this criteria but they are sometimes left with a broken chord whether or not the music dictates it. Where the string player must break some chords out of necessity, the

³Albert Schweitzer, *J. S. Bach*, book one, translated by Ernest Newman (London: Breitkopf and Härtel, 1911). Even though recent research reveals strong evidence that the *Bach bow* or *Vega-Bach bow* did not exist in the time of Bach, early 20th century musicologists sought to create a curved bow capable of covering all four strings. Albert Schweitzer and others believed this is what Bach had in mind. Recent scholarship has largely discredited this theory.

keyboardist must choose to break chords or not to break them based solely on the music and not the technical limitations of the instrument.

Because of the *newness* of the solo marimba, many fine performers are unaware of Baroque performance practice and how it can be applied in an idiomatically effective, yet stylistically appropriate, manner. This document will alleviate some concern as to how one should approach chords and arpeggios, so the marimbist can offer an idiomatic and stylistically apt performance of Bach's solo violin sonatas and partitas.

Transcription

Even as idiomatic instrumental writing was coming to fruition in the Baroque, using whatever instruments at one's disposal, a Renaissance tradition which spilled into the next generation, was still generally regarded as an acceptable musical outlet. Beginning in the early Baroque, composers, such as Claudio Monteverdi and Domenico Gabrielli began to specify instrumentation in their music. Still, exact instrumentation and idiomatic writing did not preclude instrumentalists from transcribing and arranging works to fit other instruments. In a letter to Nikolaus Forkel regarding the violin sonatas and partitas, Bach's student, Johann Friedrich Agricola, reported that

their author [Bach] often played them on the clavichord himself, adding as much harmony as he deemed necessary. Here, too, he acknowledged the need for resonant harmony of the sort that he could not wholly attain in the original composition.⁴

Even Bach, himself an accomplished violinist, found pleasure in playing the solo violin works on a keyboard instrument.

⁴ Letter to Johann Nikolaus Forkel, end of 1774; published as no. 808 in Hans-Joachim Schulze: *Dokumente zum Nachwirken J. S. Bachs 1750-1800* (Leipzig, 1972). This quote can be found in the preface to the Bärenreiter Urtext written by Peter Wollny, translated by J. Bradford Robinson. Revised edition was published in 2001. A facsimile of this letter is still being sought by the author.

Since the first publication of the sonatas and partitas as study pieces in 1803, musicians have expanded the collection through transcription or added accompaniment.⁵ Selections have been transcribed or arranged for two violins, piano, viola, cello, flute, bassoon, guitar, harpsichord, organ, recorder, orchestra, choir, and, of course, percussion keyboard instruments, specifically the xylophone, vibraphone, and marimba.⁶ Even famed composers, such as Mendelssohn and Schumann, produced their own piano accompaniment during the Bach revival of the mid-nineteenth century. Percussionists have a very young repertoire and the masters of the common practice period left nothing in the way of solo literature, therefore taking works meant for other instruments is the only way to connect to the past masters. The only justification for transcribing the sonatas and partitas was stated two paragraphs above—Bach did it, so others can as well.

Assumptions

Before a study of any facet of Baroque performance practice can be studied and applied, especially to a non-Baroque instrument like the marimba, certain ideas and theories of the day must be proposed. Below are assumptions that will be taken as truths for this document.

1. Baroque music is a performer-centered art, therefore improvisation and ornamentation can and should be employed.
2. Improvisation and ornamentation should vary and appear spontaneous in performance.

⁵The monumental *Ciaccona* from Partita II has been arranged for piano, orchestra, guitar, marimba, vibraphone, flute, viola, harpsichord, organ, saxophone ensemble, and probably numerous other instruments and ensembles.

⁶Ferruccio Busoni, Alexander Siloti, Johannes Brahms, and Joachim Raff are a few of the important pianists to tackle arranging the *Ciaccona*.

3. Even when a work appears to contain written-out diminutions, the performer can improvise sparingly. This may include, but is not limited to, added ornaments, dynamics, or chord tones.
4. Only the idiosyncrasies of an instrument can limit the amount and variety of ornamentation and other aspects of performance
5. In Baroque music, the score is a start, not the end result. Performers should strive for individualized performances. This accounts for the lack of *directions* on many Baroque scores.

General Performance Suggestions

Performance practice scholarship has concluded that German Baroque music, specifically that of J. S. Bach, because of its lack of performance suggestions, was still open to ornamentation by the performer. Certain liberties were given to the performer, and it was expected that these liberties be implemented in performance. These freedoms could also vary by performer to performer and region. Essentially, the Baroque idea of an ornament was anything not notated by the composer and supplied by the performer in performance.

Bach's solo violin sonatas and partitas present difficulties to violinists due to the counterpoint and three- and four-voice chords. However, violinists have cultivated ways to execute multi-voice chords. Executing a four-note chord on the violin in the *two-and-two* method, a post-Baroque phenomenon, is how most modern players perform these chords. Below is an example of this technique.



Musical Figure 1. Notated chord and *two-and-two* execution.

Many agree that a Baroque violinist would not have done so, rather, they would have *rolled* the chord up, down, out, or in.⁷ For example a four-note chord must be executed 1, 2, 3, 4 (up) or 4, 3, 2, 1 (down) or 2, 3, 1, 4 or 3, 2, 4, 1 (out) or 1, 4, 2, 3 or 4, 1, 2, 3 (in).⁸ A keyboard instrument has no such limitation. Keyboardists can play all notes in a given chord simultaneously or broken. In keeping with the Baroque ideal of variety and spontaneity in performance, the keyboardist must thus use broken as well as unbroken chords. In Italian and German music, the performer made these decisions, whereas the French notated when and how to break chords with symbols.

Since the violin has only four strings, Bach wrote no chords with more than four notes in the sonatas and partitas. This allows for an easy transfer to a percussion keyboard, such as marimba or vibraphone. If one desires a historically-informed performance, the keyboard percussionist must interpret these works not as a Baroque violinist but as a Baroque keyboardist. Breaking all three- or four-note chords, a necessity for violinists, should be avoided and choices should be made according to the idiomatically appropriate methods for a keyboard instrument. A keyboardist has the luxury of choosing when and how to break chords.

⁷Refer to recordings of the sonatas and partitas by Baroque violinists, Jaap Schröder and Lucy Van Dael.

⁸These are not the only possibilities. For a complete list of all possible two-, three-, and four-note permutations see charts I, II, and III on pages 39-40.

Performers rarely play music exactly as the page dictates, no matter how ambiguously or specifically notated. Even with notated ornaments and other performance suggestions, to produce a meaningful and moving performance, musicians must add what is not written. This can be as simple as playing music how it *feels*, primarily relying on one's intuition, or it may be as involved as exhaustive research into the performance history of the work. Listening to significant players in concert, as well as on recordings, and studying performance editions are an adequate start. Treatises of the time are invaluable and scholarly interpretations of these treatises are of equal importance. Still, with all these resources at the performer's disposal, each individual is left with choices, and with more knowledge comes more choices. This paper will present a series of choices regarding the performance of broken chords and arpeggios with selections from J. S. Bach's violin sonatas and partitas serving as models.

Bach's solo violin sonatas and partitas are not nearly as notationally controlling as his French contemporaries, but rather, he subscribed to the Italian style of performer input and spontaneity in performance. He left many decisions, such as dynamics, articulation, phrasing and ornamentation, up to the discretion of the performer. For example, it is completely appropriate, and expected, to add crescendi, decrescendi, and other volume changes where one sees fit even where Bach did not indicate them. This is evident in every performance edition surveyed for this document.⁹ In the entire set of violin sonatas and partitas, Bach indicated forte (*f*) and piano (*p*) only when he wanted sudden dynamic shifts for subito effects and even this was sparse and sometimes assumed, usually

⁹A list of editions, arrangements, and transcriptions can be found in the bibliography.

dependent upon the repetition of some small musical fragment. The only articulations indicated are slurs, considered by some to be merely bowings, and throughout the years, even those have differed from performer to performer. Phrasing can be determined by the material that is supplied, for example, meter, tempo, harmonic motion, melody, the dance style, title, or desired affect could all have a bearing on phrasing. In the eighteenth century, the time signature and, if applicable, the style of dance, dictated tempo but even this was flexible in the stylized dances of German composers. It is also appropriate for the performer to use rubato but only sparingly. Important cadences and ends of phrases are very fine places to use tempo rubato, but one may also *stretch* within a measure or short phrase accordingly. Ornaments, especially trills, were expected in certain instances and obligatory in others, like strong cadences at the end of large sections. Performers may also choose appropriate trill beginnings or endings, unless otherwise indicated by the composer by the accepted trill signs of the time. Other ornaments, such as appoggiaturas, acciaccaturas, or mordents, are only appropriate in cases where there is enough space, rhythmically, to include them. During passages of heavy polyphony or faster rhythmic activity, one typically avoided adding ornaments.

This document is not an all-encompassing Baroque performance practice treatise, but rather, it is a monograph on the practice of broken chords and arpeggios in marimba transcription. Violinists execute three- and four-note chords in a broken manner, but the marimbist can play these chords broken and blocked. This does pose a performance practice issue to be addressed—how and when does one break chords? Since Bach gave no indication in his solo string works to break certain chords and not to break others (he

assumed a violinist would have had to break chords out of necessity), I have had to make choices based on research into performance practices and the idiosyncrasies of the marimba.

Another problem to be addressed is arpeggiating chords. Very little is written regarding how and when to arpeggiate in the Baroque treatises, so one has to rely on primary sources, recent scholarship, recordings, performance editions, (particularly those based on the autograph manuscript), and one's own technical and musical ability. To increase my selection of arpeggio choices, I have also used the thorough-bass treatises of the late seventeenth and early eighteenth centuries.¹⁰ Türk, C. P. E. Bach, and Keller each discuss the appropriateness and inappropriateness of adding non-chord tones, ornaments, scalar figures and other elements not provided by the bass line and corresponding figures when realizing figured bass. I believe continuo ideas can be used to vary one's choices when realizing arpeggio passages.

This document will provide evidence for a historically-informed interpretation of broken chords and arpeggios in Bach's violin sonatas and partitas. I will analyze the writings from authors of the Baroque and of the past one hundred years and apply the information to Bach's sonatas and partitas. The result will be marimba performance transcriptions of the *Adagio*, *Fuga*, and *Siciliana* from Sonata I, BWV 1001, the *Sarabande* and *Tempo di Borea* from Partita I, BWV 1002, the *Andante* from Sonata II, BWV 1003, the *Sarabanda* and *Ciaccona* from Partita II, BWV 1004, the *Adagio* and

¹⁰For thorough bass treatises see Daniel Gottlob Türk's *School of Clavier Playing or Instructions in Playing the Clavier for Teachers and Students*, translated with notes by Raymond H. Hagg (Lincoln: University of Nebraska Press, 1982) (orig. pub. Leipzig, 1789); Hermann Keller, *Thoroughbass Method*, translated and edited by Carl Parrish (New York: W. W. Norton and Company, 1965); and C. P. E. Bach, *Essay on the True Art of Playing Keyboard Instruments*, translated and edited by William J. Mitchell (New York: W. W. Norton, 1949) (orig. pub. Eulenburg, 1753).

Fuga from Sonata III, BWV 1005, and the *Gavotte en Rondeau* and *Menuet I* from Partita III, BWV 1006. These can be found in Appendix B. Appendix A should be consulted first to familiarize oneself the notation symbols.

CHAPTER II

BROKEN CHORDS

Even though string players break most chords out of necessity, players of keyboard instruments, in particular, the marimba, have the luxury of choice, but it must not be made arbitrarily. The keyboardist must consider style, historical practices, rhythm, moving lines, and composer intent when determining what and how to break chords

There are those who believe all instrumentalists, even violinists for whom this set was written, should strive for block chords and only arpeggiate chords when notated. In his argument for the *Bach Bow*, the Bach scholar, Albert Schweitzer said

Every one who has heard these sonatas must have realized how sadly his material enjoyment of them falls below his ideal enjoyment. There are many passages in them that the best player cannot render without a certain harshness. The arpeggio harmonies sometimes make a particularly bad effect, even in the finest playing. Polyphonic arpeggio playing is and must be an impossibility.¹¹

Schweitzer was actually using the Sonatas and Partitas to make his case for a bow capable of sustaining all four strings at once. This has been largely discredited by recent scholars. In his response to a previous article by Dr. Emil Temányi, Sol Babitz said

The following facts should be borne in mind:

1. No historical evidence can be found to support the theory that eighteenth century violinists sustained notes on three or four strings simultaneously.
2. There is ample historical evidence to show that chords were arpeggiated.
3. The internal evidence of the music supports the historical evidence.
4. The authentic bows of the eighteenth century, when used on authentic violins (with short necks and bass bars), with the authentic technique as described by Leopold Mozart, Geminiani and others do not permit the playing of sustained chords.¹²

¹¹ Albert Schweitzer, *J. S. Bach*, I, translated by Ernest Newman (London: Breitkopf and Härtel, 1911) 388.

¹² Sol Babitz, "The Vega Bach Bow: A Reply to Dr. Emil Temányi," *Musical Times* 96, 1347 (May, 1955), 251-2.

To be sure the ‘traditional’ way of playing chords, inherited from the nineteenth century, is unsatisfactory because it breaks the chords into choppy sections, putting the bass before the beat which is incorrect in the music of the Figured Bass era. Quite different from the modern ‘traditional’ breaking is the correct eighteenth-century arpeggiation of a chord, with the bass on the beat and a melodic rolling effect. This does not interfere with the cantilena but heightens the expressiveness which is so important a feature of the music composed when the doctrine of the affections (*Affektenlehre*) was accepted...It is thus clear that modern violinists who break chords instead of arpeggiating them are approximating more closely to the correct arpeggiated performance than those who try to play them as written. These new bows represent in fact a step away from the authentic performance.¹³

Still, some of the most revered string players of the past century found broken chords troublesome to an ideal performance of a work. According to Carl Flesch,

The inability of most violinists to produce chords that sound well, even if not arpeggiated, has had the result to give the violin a bad name as a polyphonic instrument...It is also my opinion that, with really good bow technique, it is very possible to play three-part chords simultaneously, if they are not too long. The necessary arpeggiation of four-part chords can be accomplished in such a way that the listener hardly gets the impression of arpeggiation.¹⁴

Eduard Melkus believed the block chord to be the ideal solution and broken chords to be an essential element.

if one considers the historical background of solo violin playing and how it was influenced by the way the *lira da braccio* was played, there can be no doubt that sounding the chord simultaneously was at least the ideal conception for the violinist; clearly, a broken, arpeggio chord was here merely a makeshift.¹⁵

Even though Flesch and Melkus are both well-respected string players, broken chords are needed for an expressive and individualized performance of the sonatas and

¹³Ibid., 252

¹⁴Carl Flesch, *The Art of Violin Playing*, book one, translated and edited by Eric Rosenblith (New York: Carl Fischer, 2000), 63-4.

¹⁵Eduard Melkus, “The Bach Chaconne for Solo Violin: Some Thoughts on the History of its Interpretation,” *The Bach Chaconne for Solo Violin: A Collection of Views*, edited by Jon F. Eiche (Bloomington, IL: American String Teacher’s Association, 1985), 144.

partitas, in particular, the slow movements, but the faster movements can also be enhanced by arpeggiations as well. In *The Interpretation of Music*, Thurston Dart said to “play expressive sections slowly. Emphasize suspensions and dissonances by lingering over them, and use frequent arpeggios whenever the music shows signs of growing empty.”¹⁶

One must keep in mind that Bach was an accomplished violinist, so he was well aware of what was capable on the instrument. In his argument against the *Bach bow Sol* Babitz asserted “Bach wrote these impossibilities not because he did not know how to write for the violin but because he knew too well that the chords would be arpeggiated according to the custom of the day.”¹⁷

Broken chords can be used for musical effect and variety but also “to surprise the ear with their unexpected vehemence.”¹⁸ Using historical and recent scholarship into the subject, I will offer parameters suggesting when, how, and why to break chords. These ideas will then be applied to various movements from the sonatas and partitas. First, I will present four parameters for when broken chords are to be used and when they are not. These are mere suggestions and not applicable in every musical situation, still one should consider that these parameters are grounded in historical evidence. The next chapter will provide examples of broken chord permutations as well as some specific musical reasons to aid the performer choosing these permutations.

¹⁶Thurston Dart, *The Interpretation of Music*, (New York: Harper and Row, 1963), 110.

¹⁷Babitz, 252.

¹⁸Johann Joachim Quantz, *On Playing the Flute*, 2nd edition, translated and notes by Edward R. Reilly (New York: Schirmer Books, 1985) (orig. pub. Berlin, 1752), 226-7.

Parameter 1. Chords can be broken but not always

Starting in the early twentieth century percussionists began transcribing common practice period string works for marimba and other percussion keyboard instruments and since then, the execution of chords has been debated. Below are three views from keyboard percussionists regarding when, how, and why to break chords.

In her 1991 DMA dissertation on a similar topic to mine, Cheryl Ann Grosso points out that “all multiple stops are played simultaneously” in the performance suggestions before her vibraphone transcriptions of Bach’s Sonata II and Partita III.¹⁹ She believed that the block chord was the ideal and the broken chord a mere necessity. Albert Schweitzer said chords in Bach’s day were “played without any restlessness, and without arpeggios,” because of the bow and therefore he believed “that this is the only correct and, from the artistic standpoint, satisfactory way of playing it.”²⁰ But there are those who believe broken chords are a necessary embellishment.

According to Robert Donington, “in so far as the broken chord achieves a truly melodic pattern, it arose as part of the general tradition of free ornamentation, selected figures from which became to some extent established here as specific ornaments in the usual way.”²¹ Of embellishment, a term used interchangeably with ornamentation, Donington said “music hardly ever, if at all, consists only of its basic progressions. It

¹⁹Cheryl Ann Grosso, *A Comprehensive Performance Project in Percussion Performance with an Essay Comprised of a Performance and Pedagogical Analysis for Vibraphone of Sonata II and Partita III for Violin Solo by J. S. Bach* (DMA diss., University of Iowa, 1991), 81, 88, and 142.

²⁰Schweitzer, 390.

²¹Robert Donington, *The Interpretation of Early Music*, new revised edition (New York: W. W. Norton, 1992), 278.

must be embellished. This may mean far more than mere decoration.”²² He went on further to say, “our problem here is that even Baroque composers still left substantial proportions of their figuration to be supplied, more or less impromptu, by the performer.”²³ If considered ornamentation, then according to Donington, broken chords are embellishments to be supplied by the performer.

While percussion keyboard instruments can produce blocked chords that the violin simply cannot, some chords can and should be arpeggiated for pure musical reasons and not just out of convenience and never in an effort to imitate the violin. At times, Jack Van Geem seemed concerned with mimicking the violin instead of creating moments idiomatic to the marimba in his interpretation of select chords from the G minor *Fuga* and the *Ciaccona*. He said

We do share one device with the violinist and that is the manner in which they play chords. The violin bow can only play two strings at a time. This means every time a chord appears of three or more notes, the violinist must decide how best to separate the notes of the chord. Bach certainly knew this and expected the effort of presenting these chords to add intensity to the music. The general idea is the notes will be ordered with the most important note last and more present. Four-mallet technique allows us to mimic the violinist exactly, however, we have the advantage of being able to play all notes at once mimicking the harpsichord or lute. This gives us a tool for showing increasing intensity of chords. As a series of chords grow in intensity, we can move from a simultaneous sounding of the chord to increasingly more apparent versions of broken chords.²⁴

²²Ibid., 152.

²³Ibid., 152-3.

²⁴Jack Van Geem, *Marimba Master Class on Works by Schwantner, Schuller, and Bach*, edited by Anthony J. Cirone (Galesville, MD: Meredith Music, 2011), 43.

Van Geem agreed that some, but not necessarily all chords, should be broken and that the music should guide in the decision-making not necessarily according to instrumental idiosyncrasies.

Brian Cole wrote about chords that should be broken for embellishment, *chordal arpeggio* was his term for this, and chords that should be broken to fill the space of longer note values, *linear arpeggio*. He believed the linear arpeggio should be “performed melodically with a definite rhythm” and could “include non-harmonic tones.”²⁵ Cole believed broken chords should replace the tremolo but what Cole failed to realize is that a tremolo played soft, loose-wound mallets on a rosewood instrument with tuned resonators in a proper concert space could sound like a sustained pitch or pitches and the repercussions would be inaudible to the audience.

While the violinist breaks chords out of necessity, arpeggiating only those chords that a violinist must break seems unartistic and non-idiomatic. And what of the three-note chords capable of sounding simultaneously on the violin? Must they all be played as blocked chords? Artistry and musicianship should play a role in the decision-making process and violinists would break some chords for purely musical reasons as well. A contemporary of Bach, Johann Mattheson wrote that

Not only does great ornamentation arise from this in the mentioned instrumental parts, but also at the same time endless variation, indeed, so to speak, an inexhaustible source of inventions. And that is the reason or the occasion for

²⁵ Brian Cole, “Baroque Performance Practice and the Marimba Transcription,” *Percussive Notes* (June 1991), 9.

these breaks as well as their usefulness and superb application, which no one else has mentioned in writing, in solos of the mentioned instruments.²⁶

If this was the consensus of Baroque musicians, then perhaps Bach gave no notated performance indications because it was expected that one would ornament and embellish the Sonatas and Partitas with broken chords not only out of necessity but for purely musical reasons as well. Some chords are broken because they have to be and some are broken because the performer chooses to break them. The twentieth-century Baroque violinist, Jaap Schröder believes this is not a curse but rather a blessing.

The need to arpeggiate three- and four-note chords is most certainly not an unfortunate limitation of our instrumental technique. On the contrary, such arpeggiation heightens the rhetorical eloquence and should be carefully cultivated. Depending on the effect desired, a chord can be played either with a dramatic sweeping movement or as a leisurely spread arpeggio.²⁷

Because of the ability to play block or broken chords, marimbists have more options for performance. These choices should be made for musical reasons only and never *because the violin has to*. Therefore, the marimbist can make educated choices regarding what chords to break and what chords to not break. The next three parameters will provide general guidelines for the performer to make informed decisions accompanied with specific passages incorporating broken chords. These are my own ideas that guide me through the decision-making process in practice and in performance.

²⁶Johann Mattheson, *The Complete Music Director*, revised and translated with critical commentary by Ernest C. Harris (Ann Arbor: University of Michigan Press, 1981) (orig. pub. Kassel, 1739), 670.

²⁷Jaap Schröder, "The Chaconne and the Baroque Tradition," *The Bach Chaconne for Solo Violin: A Collection of Views*, edited by Jon F. Eiche (Bloomington: American String Teacher's Association, 1985), 133.

Parameter 2. Chords can be broken when there is enough space

When there is room before or after the chord, I recommend a broken approach with the manner of execution dependent upon the musical situation. Slower works are excellent for implementing parameter 2. Sometimes a passage can be slow and spacious enough that almost every chord can be broken without distorting the rhythm and tempo. An excellent example of a phrase where the performer should break every chord is the beginning of the *Ciaccona* from Partita II. The tempo of the *Ciaccona* should allow every chord to be broken. For the sake of variety, one can even vary the speed of the arpeggiation according to metric placement and dynamic.²⁸

For mm. 1-16, the chords on the second beat should be slightly louder and broken slower than the chords on count one or three.

Musical Example 1. Ciaccona from Partita II, BWV 1004, mm. 1-8 by J. S. Bach, arr. J. Mathena.

Another movement that has many places where one should break the majority of the chords is the *Adagio* from Sonata I. Because of the slow tempo, every chord could be broken, but this would sound redundant and predictable. Still there are multiple ways to interpret the same passage. Regarding choice, Schröder wrote

There is infinite variety in the ways the chords can be played, depending on their function, weight and affect. Chords can be executed briskly with one short

²⁸ Quarter note equals 50 to 70 beats per minute. Jaap Schröder, *Bach's Solo Violin Works: A Performer's Guide* (London: Yale University Press, 2007), 183; Eduard Herrmann, ed., *Bach: Sonatas and Partitas for the Violin* (New York: Schirmer, 1986), 34.

impulse, but most will be arpeggiated, violently or leisurely, tightly or spread out, down-bow or up-bow. Their lowest note can start before or on the beat, but the bass line will have greater definition when it is played on the beat with some degree of lengthening. If the player takes care *not* to include a *crescendo* towards the highest note, not to put most intensity on the E string, the chord will sound better balanced and more resonant.²⁹

I will apply some of Schröder's thoughts to the first two bars of the *Adagio* from Sonata I. The first chord can be broken low to high very slowly and stately, that is if one chooses a more aggressive beginning. If one chooses a somber, brooding beginning, then a leisurely arpeggiation that dies away can be employed. This very open approach, whether it is forceful or subtle, can be applied to chords with enough space before or after. I choose a very powerful approach to the opening chord. The next chord I break on beat three of bar 2 and play the others in this passage simultaneously. This is done in an effort to not obscure the sixty-fourth-note figures that lead into beats three and one of measures 1 and 2 respectively. Below is my transcription.



Musical Example 2. Adagio from Sonata I, BWV 1001, mm. 1-2 by J. S. Bach, arr. J. Mathena.

Parameter 3. Break chords should not distort the notated rhythm

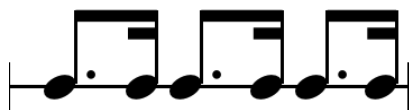
When dense rhythmic figures precedes the chord, I recommend a blocked approach. This will not disrupt the rhythmic flow and the audience will perceive the music as it was written. There is little mention of the execution of broken chords as they

²⁹Schröder, *Bach's Solo Violin Works*, 56.

relate to the surrounding rhythms but Michel de Saint-Lambert said “[unmeasured] arpeggiation is only suitable in [unmeasured] preludes, where there is no strict measure; for in airs with [measured] movement (Airs de mouvement) it is necessary to strike the chords definitely in time with the bass.”³⁰ Even though this quote does not specifically address parameter 3, Saint-Lambert’s idea can be applied.

There are moments when Bach wrote three- and four-voice chords amidst lively rhythmic activity. When violinists break these chords, it warps the rhythm and a listener, who is unfamiliar with the piece, may not perceive the rhythm as the player intended. Still, because the violin has to break these chords does not mean a keyboardist does and I recommend block chords in rhythmically dense passages. Of course, there are exceptions but these are sparse and can be saved for important moments, like interludes, episodes, and cadences.

On a violin, the *Adagio* from the Sonata III can sound awkward to anyone who is unfamiliar with the work. A problem is the interpretation of the following rhythm:



Musical Figure 2. Recurring rhythm of the *Adagio* from Sonata III, BWV 1005 by J. S. Bach.

This is not to say that this rhythm is difficult for the violin but rather this rhythm is difficult to execute accurately when accompanied by two or three voices sounding on the beat with this figure. In an effort to not mutate this rhythm, I break chords in only a

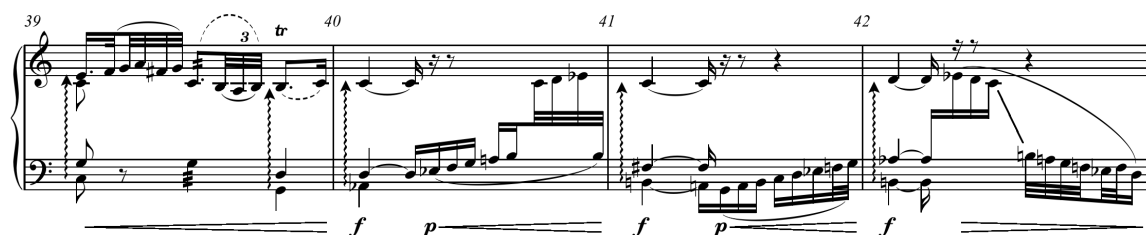
³⁰ Michel de Saint-Lambert, *Nouveau traité de l'accompagnement* (Paris: 1707), 130, quoted in Donington, *The Interpretation of Early Music*, 347.

few places in this movement and never during the motor rhythm. Below is my transcription of the first ten bars from the *Adagio* from Sonata III.

Musical Example 3. Adagio from Sonata III, BWV 1005, mm. 1-10 by J. S. Bach, arr. J. Mathena.

Because of the steady eighth-note rhythm, which allows space for arpeggiated chords without disrupting the rhythm, the chords in mm. 5, 7, and 9 have been notated as broken. In an effort to be true to the rhythmic motive above, it is recommended that the chords around that rhythm, like in bars 3, 4, 6, 8, and 10 for example, be played blocked and not broken. The sixteenth-note to the dotted eighth-note can not be clear to the listener if a broken chord is wedged between those two notes.

Even though the rhythmic density increases in bars 39-42, broken chords can be applied even if the preceding rhythm becomes mutated and rubato-like. This is in contrast to the previous two performance suggestions that warned against breaking chords preceded by faster rhythms, but at the end of the *Adagio* broken chords are quite appropriate given the harmony Bach has provided. Also one would do well to incorporate rubato.



Musical Example 4. Adagio from Sonata III, BWV 1005, mm. 39-42 by J. S. Bach, arr. J. Mathena.

All of the above chords are broken and on the beat save one, count three of bar 39. This chord is executed left-right with the left hand playing the G and D simultaneously on the beat and the right hand taking the B slightly after the beat.

Unlike the slower and freer G minor *Adagio*, broken chords in the fugas should be more predictable and consistent but less frequent. For variety and the illusion of length, there are times in which all chords should be broken regardless of metric placement. All chords *on* the beat in mm. 30-4 can be broken while keeping the rhythmic integrity only if the chord is rolled *before* the beat. By rolling all chords in these bars, the long-short figure in the upper voice can be emulated on an instrument like the marimba, which has no sustaining capabilities besides the natural resonance of the bars.



Musical Example 5. Fuga from Sonata I, BWV 1001, mm. 30-4 by J. S. Bach, arr. J. Mathena.

In contrast to passages like the previous one, another example of a phrase where no chord should be broken because of the surrounding rhythms begins in m. 77 and

continues through 86. Because of the sixteenth-notes in the right hand, the chords should be played blocked so the rhythm in the upper staff is not obstructed. In m. 80, the recapitulation begins with the main line in the bass with bits of the subject continuing in the tenor and alto voices. Because of the density of voices and low placement of the subject, it is recommended that no chords should be broken with the exception of the cadential 6/4 on count three in bar 86.

Musical Example 6. Fuga from Sonata I, BWV 1001, mm. 77-86 by J. S. Bach, arr. J. Mathena.

Parameter 4. If a passage is melody and accompaniment,
chords should be broken sparingly

Like other keyboard instruments, the marimba is capable of accompaniment and melody simultaneously. There are instances in the sonatas and partitas where chords occur when one line has the melody and the other voices are secondary in importance. I

recommend breaking chords only in certain occasions. There is no specific evidence to support this idea but regarding Baroque accompaniment, Donington said “in many passages, perhaps a majority, a plain accompaniment serves best.”³¹

Two movements from the Sonatas and Partitas that are clearly homophonic in texture are the *Siciliana* from Sonata I and the *Andante* from Sonata II. If one were to break all the three- and four-voice chords, then the melody and accompaniment could sound as one voice instead of separate lines. In these two movements, small interludes are dispersed throughout and these areas provide opportunities for some embellishments. Also cadence points can be ornamented with broken chords to emphasize the ends and beginnings of phrases.

In the pastoral *Siciliana*, the majority of the melodic material is found in the lower voice with the upper voices providing rhythmic and harmonic support. In an effort to not disrupt the rhythm of the melody and its accompaniment, I recommend that broken chords should be used sparingly, particularly at cadences, mm. 4, 14, 16, 19, and 20, and the brief interludes, mm. 8, 12-4, and 16-8. By not rolling the chords of bars 1-7 (with the possible exception of the tonic chord in bar 4) and 9-11, the rhythm of the melody and accompaniment, as well as which specific line is the melody and which is the accompaniment, are both clear to the listener.

³¹Robert Donington, *Baroque Music: Style and Performance, A Handbook* (New York: W. W. Norton, 1982), 150.

1

2

3

4

5

6

7

8

9

10

p *mf* *p*

mp *fp*

sub. mp

sub. mf *p* *f*

mf *fp*

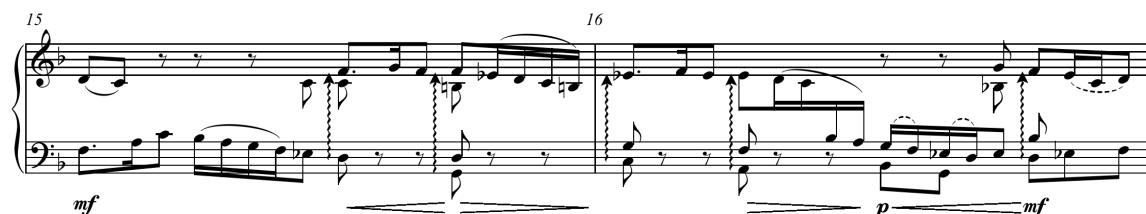
sub. mp *sub. mf* *sub. f*

p

Musical Example 7. Siciliana from Sonata I, BWV 1001, mm. 1-10 by J. S. Bach, arr. J. Mathena.

Since this movement is relatively slow and peaceful, one should vary the speed of the broken chord according to dynamics and dissonance. An example of this would be

the G dominant 7 chord in bar 15 that resolves to the C minor triad on the downbeat of bar 16. It is recommended that the G dominant 7 chord be rolled more openly and dramatically than the C minor chord to emphasize the cadence.



Musical Example 8. Siciliana from Sonata I, BWV 1001, mm. 15-6 by J. S. Bach, arr. J. Mathena.

Like the *Siciliana*, the *Andante* from Sonata II is essentially melody with accompaniment, but in this movement the upper voice carries the main musical line with a steady eighth-note ostinato accompaniment underneath. As with the *Siciliana*, one must use broken chords sparingly so listener can easily distinguish what is the melody and what is not. This movement is hauntingly beautiful if one were to simply play just notes and rhythms. With added dynamics, phrasing, a few ornaments (especially on the repeats), and articulation, the *Andante* seems to come alive even without the aid of broken chords. Still, there are a few instances where a broken chord can render a lovely effect.

Cadences always provide an outlet for adding broken chords if the performer so chooses. I choose to arpeggiate the downbeat of bar 4 and 8 and sometimes the final two eighth notes of bar 7. These two passages mark the first two of three significant cadences of the A section.

NOTE: Always keep the eighth note accompaniment softer than the right hand

Musical Example 9 shows measures 1 through 8 of the Andante from Sonata II, BWV 1003, by J. S. Bach, arranged by J. Mathena. The piece is in 3/4 time. The right hand features a melodic line with various ornaments and slurs. The left hand provides a steady eighth-note accompaniment. Dynamics include *pp*, *p*, *mp*, *mf*, and *f*.

Musical Example 9. Andante from Sonata II, BWV 1003, mm. 1-8 by J. S. Bach, arr. J. Mathena.

The next broken chord can be found on count three of bar 9. To give a sense of rubato, I pull back the tempo for the first beat of this bar then push through the thirty-second-notes on count two only to land delicately on count three with a unique interpretation of the lower note sounding first followed by the two upper notes sounding simultaneously.

Musical Example 10 shows measures 9 through 11 of the Andante from Sonata II, BWV 1003, by J. S. Bach, arranged by J. Mathena. The piece is in 3/4 time. Measure 9 features a broken chord on count three. Measure 10 includes a trill. Measure 11 has a first and second ending. Dynamics include *f*, *mp*, and *p*.

Musical Example 10. Andante from Sonata II, BWV 1003, mm. 9-11 by J. S. Bach, arr. J. Mathena.

To clarify, the B is played on the beat with the left hand and the G and D come after the beat with the right. This will help the listener hear the ascending half step in the bass between mm. 9 and 10. Because of the rhythmic activity, these bars, if played

sensitively, can suspend time without bending it too far. The same can be said for mm.

24 and 25.

Musical Example 11. Andante from Sonata II, BWV 1003, mm. 24-7 by J. S. Bach, arr. J. Mathena.

In bar 24, the sixteenth-note rhythm is purposefully jolted by the placement of a very wide and powerful chord executed thus: the A is struck rather forcefully then I accelerate and crescendo to the F#. Time does slow briefly but can be made up with the four notes that lead into bar 25. The dominant chord leading to the cadence at bar 26 is broken but once the eighth note accompaniment reenters, I go back to the steady tempo with no broken chords.

CHAPTER III

DIFFERENT APPROACHES TO BREAKING CHORDS

Now that I have verified when chords can be broken according to very general musical elements, musical examples displaying very specific places will be discussed. The main point one must remember is chords can be broken in a number of ways. If every broken chord within a given work or set was arpeggiated in the same manner every time, the performance would be stale and predictable. In his treatise on the Sonatas and Partitas, Richard Efrati said “above all, chords should not be regarded as pillars which support a homophonic line, but as the starting-points or bearers of several musical lines.”³²

Since they are the most common ways of breaking chords, I will first cover when to roll chords up or down. Later in his book, Efrati also wrote

In cases where the lower voice is moving, editors suggest starting the chords from the upper string. This method of playing would however would be contrary to a rule given by Christofer Simpson (†1669) in his Tutor for the Viola da gamba: “When two, three, or more notes stand over another, they must be play’d as One, by sliding the Bow over those Strings which express the sound of the said Notes ... be sure to hit the lowest String first (insisting thereon as long as need requires) and let the Bow slide from it to the highest, touching in its passage those in the middle betwixt them.”³³

In contrast to Efrati’s statements, Robert Donington believed in “ending on whichever note (top, bottom, or middle) continues the melody.”³⁴ This is a fine interpretation that allows for more creativity and it also will provide much variety, but if

³²Richard R. Efrati, *Treatise on the Execution and Interpretation of the Sonatas and Partitas for Solo Violin and the Suites for Solo Cello by Johann Sebastian Bach* (Zurich: Atlantis, 1979), 133.

³³Ibid., 204.

³⁴Donington, *The Interpretation of Early Music*, 544.

the tempo or rhythm does not allow for it, this simply may not be possible. Arnold

Dolmetsch also shared Donington's sentiments.

In modern music, the chords, when broken, are nearly always broken upwards, beginning with the lowest note. In the old music many other forms were used. The player had to find out the best arrangement, and he was supposed to know how to fill up the time of each Arpeggio chord according to the style of the piece he was playing.³⁵

Dolmetsch enhanced his argument further using the writings of Rameau.

In the advice to players prefacing the "Concerts en Trio" of Rameau (1741), there is a direction to the viol player which is most useful in indicating how to treat arpeggios containing important inner parts. Rameau says that in places where the violist cannot conveniently play two or more notes together, he must play them arpeggio, *finishing upon the one on the side of which the melody continues*. This is the key to the interpretation of many arpeggios of Bach.³⁶

He believed the most important item to consider when breaking a chord is placement of the primary line. If the main voice is in the soprano, then the chord is broken from low to high, and if the main voice is in the bass, then high to low. For an example of chords broken from low to high, I will revisit a phrase from one of the episodes of the G minor *Fuga*. In example 9 the most important line is undeniably in the soprano, therefore I break all chords upward, starting before the beat.



Musical Example 12. Fuga from Sonata I, BWV 1001, mm. 30-4 by J. S. Bach, arr. J. Mathena.

³⁵ Arnold Dolmetsch, *The Interpretation of the Music of the Seventeenth and Eighteenth Centuries: Revealed by Contemporary Evidence* (London: Novello, 1915), 260.

³⁶ *Ibid.*, 270.

Examples of downward rolled chords are a bit harder to find in the sonatas and partitas. In certain musical instances, I agree with Efrati and start the chord from the bottom regardless of main line placement, but when that line is in the bass voice, I typically play all tones of the chord simultaneously. However, there are a few instances where I start at the top and roll down. Two specific chords will serve as examples.

Final chords are acceptable moments for a downward broken chord. Two movements, in particular, the G minor *Fuga* and the *Tempo di Borea*, I end with a downward broken chord that also decrescendos as it descends.

Musical Example 13. Fuga from Sonata I, BWV 1001, mm. 93-4 by J. S. Bach, arr. J. Mathena.

Musical Example 14. Tempo di Borea from Partita I, BWV 1002, mm. 61-8 by J. S. Bach, arr. J. Mathena.

Some chords can be broken high to low even when the main line is in the top voice. The key to executing this without blurring main note for the listener is to strike the top note *on* the beat and roll the chord downward *after* the beat swiftly and diminishing in

volume as it descends. Bar 21 from the B minor *Sarabande* and bar 5 of the D minor *Sarabanda* are both places where I apply this concept. In the D minor *Sarabanda* it works well because of the thirty-second-note figure leading into bar 5. If one were to break the chord from low to high the resolution, the Bb, would come after the beat instead of on the beat where it belongs. The only other suitable option is to play a blocked chord in bar 5.



Musical Example 15. Sarabande from Partita I, BWV 1002, mm. 15-22 by J. S. Bach, arr. J. Mathena.

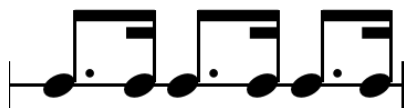
Musical Example 16. Sarabanda from Partita II, BWV 1004, mm. 1-9 by J. S. Bach, arr. J. Mathena.

In contrast to the relatively obvious decisions involving ascending or descending chords, problems arise when the principal line is in an inner voice. Some think that regardless of the primary moving line, all chords should be broken from bottom to top.

As open-minded as Jaap Schröder is on many issues, sometimes he was fervent in his belief that regardless of the principal line, chords should always go from bottom to top.

According to Andreas Moser, a close friend of the violinist [Joseph Joachim], after hearing Joachim play bars 9-17 with the chords broken downward, from top to bottom, “Mendelssohn clapped his hands together over his head and shouted: How can you play in such an artificial way? Play Bach’s music in the natural manner which you used before, and remember first of all that intelligent and truly musical people hear not only with the outer ear but also with their inner ear. Therefore they always know where a motive comes from and where it goes – for the unmusical listeners there is in any case no remedy such as you applied in this passage on the advice of David, Lipinsky, or someone else!” (The chordal passage in question presents the main line in the bass; breaking the chords downwards to stress those bass notes produces, in my mind, the effect of vomiting.)³⁷

There are also some who believe the exact opposite of Schröder, Joachim, and Mendelssohn. Donington says “[end] on whichever note (top, bottom, or middle) continues the melody.”³⁸ There is a unique phrase beginning in bar 9 of the *Ciaccona* where the primary focus is in an inner voice. To further complicate matters, the overriding motor rhythm is



Musical Figure 3. Recurring rhythm of mm. 9-16 of the *Ciaccona* from Partita II, BWV 1004 by J. S. Bach.

If the chords on counts one and two of the bars in question must be broken, this rhythm will be distorted and the primary voice still may not be distinguished by the listener. This would seem like a place to *not* break chords but I believe broken chords are

³⁷Jaap Schröder, *Bach's Solo Violin Works*, 132. In reference to the *Ciaccona*. Ferdinand David (1810-1873), was the publisher of the second edition of the sonatas and partitas in 1843. According to Schröder, Karl Lipinsky was the “greatest Bach player of his time.”

³⁸Donington, *The Interpretation of Early Music*, 544.

actually the solution to bringing out the principal voice while still faithfully adhering to the rhythm.

Before I present my solution, Carl Flesch's interpretation will be examined.

Regarding mm. 9-12 of the *Ciaccona* he asserted that "only the question remains how that breaking should be handled, when thematic considerations preclude the breaking from low to high strings."³⁹



Musical Example 17. Ciaccona from Partita II, BWV 1004, mm. 9-12 by J. S. Bach, ed. Carl Flesch, *The Art of Violin Playing*, book one, translated and edited by Eric Rosenblith (New York: Carl Fischer, 2000), 145.

If the chords were broken in the ordinary way, the theme of this variation would sound thus:



Musical Example 18. Ciaccona from Partita II, BWV 1004, mm. 9-12 by J. S. Bach, reduction by Carl Flesch, *The Art of Violin Playing*, book one, translated and edited by Eric Rosenblith (New York: Carl Fischer, 2000), 145.

instead of:



Musical Example 19. Ciaccona from Partita II, BWV 1004, mm. 9-12 by J. S. Bach, reduction by Carl Flesch, *The Art of Violin Playing*, book one. Translated and edited by Eric Rosenblith (New York: Carl Fischer, 2000) 145.

³⁹Flesch, 145.

The broken chords in mm. 10, 11, 14, and 15 are executed thus - 2, 1, 2, 3, 4

Measures 9-16 are shown. Dynamics: *p*, *mp*, *mf*, *mp*, *p*, *mp*, *mf*, *f*. A trill (*tr*) is marked in measure 16.

Musical Example 21. Ciaccona from Partita II, BWV 1004, mm. 9-16 by J. S. Bach, arr. J. Mathena.

Measures 9-16 are shown. Dynamics: *p*, *mp*, *mf*, *mp*, *p*, *mp*, *mf*, *f*. A trill (*tr*) is marked in measure 16.

Musical Example 22. Ciaccona from Partita II, BWV 1004, mm. 9-16 by J. S. Bach, rhythmic approximation by J. Mathena.

The downbeat of m. 10 from the G minor *Adagio* is another example of how to negotiate a situation where the important note is in an inner voice. Instead of starting on the focal note, one can also end on it according to Dolmetsch and Rameau.⁴¹ The

⁴¹ See footnote 34 and 35.

retardation in the alto is the focal point of this chord and therefore the chord is arpeggiated 1, 2, 4, 3. By ending on the alto the listener will be drawn to the dissonance and subsequent resolution.



Musical Example 23. Adagio from Sonata I, BWV 1001, mm. 10-11 by J. S. Bach, arr. J. Mathena.

These are but a few possible combinations, but they are the more accessible solutions to the marimbist and therefore more easily identifiable to the listener. Still, there are only a finite number of ways to execute broken chords. Below is a chart of all two-, three-, and four-note possibilities of broken chords for reference. Some of these permutations are used quite frequently by marimbists and some very rarely if ever due to their awkwardness.

Dyads

- | | | |
|-------|-------|--------|
| 1. 12 | 2. 21 | 3. 1/2 |
|-------|-------|--------|

Triads

- | | | |
|--------|-----------|-----------|
| 1. 123 | 6. 312 | 11. 2/3 1 |
| 2. 321 | 7. 213 | 12. 1/3 2 |
| 3. 231 | 8. 1/2 3 | 13. 2 1/3 |
| 4. 312 | 9. 3 1/2 | 14. 1/2/3 |
| 5. 132 | 10. 1 2/3 | |

Tetrads

1. 1234	26. 3/41/2	51. 12/34
2. 2341	27. 1/42/3	52. 42/31
3. 3412	28. 2/31/4	53. 2/314
4. 4123	29. 1/32/4	54. 2/341
5. 1342	30. 2/41/3	55. 142/3
6. 2413	31. 1/2/34	56. 412/3
7. 3124	32. 12/3/4	57. 1/324
8. 4231	33. 41/2/3	58. 1/342
9. 1423	34. 2/3/41	59. 21/34
10. 2134	35. 1/3/42	60. 41/32
11. 3241	36. 21/3/4	61. 241/3
12. 4312	37. 1/2/43	62. 421/3
13. 1432	38. 31/2/4	63. 132/4
14. 2143	39. 1/234	64. 312/4
15. 3214	40. 1/243	65. 12/43
16. 4321	41. 341/2	66. 32/41
17. 1324	42. 431/2	67. 2/413
18. 2431	43. 41/23	68. 2/431
19. 3142	44. 31/24	69. 1/423
20. 4213	45. 123/4	70. 1/432
21. 1243	46. 213/4	71. 21/43

22. 2314	47. $3/4$ 1 2	72. $31/42$
23. 3421	48. $3/4$ 2 1	73. $231/4$
24. 4132	49. $1\ 3/4$ 2	74. $321/4$
25. $1/2\ 3/4$	50. $2\ 3/4$ 1	75. $1/2/3/4$

Chart 1. Permutations of all possible combinations of dyads, triads, and tetrads. Each number represents a tone in the chord from bottom to top (1234). If two numbers are connected with a slash, i.e. $1/2$, they are to be played simultaneously. Arranged in rows from left to right.

How one breaks chords can be dictated by the placement of the main line, but other musical variables can also dictate when and how to apply these permutations, and to what degree these combinations can vary. The speed of arpeggiation is a variable factor and should be used according to certain musical aspects. A swift upward or downward motion can create intensity and excitement whereas a slow, open rolling of the chord can also create tension by suspending time. In an effort to make all four strings sound simultaneously, some violinists roll the chord as fast as possible. Some, including Mattheson, believe this to be the appropriate method.

One might object: We want to perform it slowly. But I [Mattheson] reply that when that occurs then all arpeggiated things lose their real essence and true nature, which consists only of motions and always aims towards swiftness.⁴²

In extreme contrast to Mattheson, Thurston Dart said

arpeggios must be fairly slow, beginning from the bass and with each note clearly defined; their rhythm should be uneven, the upper notes of the arpeggio being delayed for quite a time after the bass has been sounded.⁴³

⁴² Mattheson, 579.

⁴³ Dart, 116.

In contrast to both Mattheson and Dart, Jaap Schröder believed in a variety of approaches.

Chords can be executed briskly with one short impulse, but most will be arpeggiated, violently or leisurely, tightly or spread out, down-bow or up-bow.⁴⁴ Many of the multiple stops do not ask for a big sound; a light arpeggiated gesture is most appropriate to keep the rhetorical monologue flowing. By contrast, some strong and sudden dissonant chords can have great impact when played with an energetic down-bow stroke...⁴⁵

One should bear in mind that swiftness does not equal to loud chords and leisurely broken chords are not always associated with softer passages. Dynamics are an entirely different variable altogether. Mattheson probably warned against slow arpeggiations so one could avoid chords that have discernible rhythms. It is imperative that broken chords sound rhythmically ambiguous. Dart probably warned against swift arpeggiation so one would not roll chords so fast that they become harsh and unmusical. In *The Interpretation of Early Music*, Robert Donington offered two solutions to this problem.

With a bridge as highly curved as the present standard [violin], and with strings as tense, it is not possible for the bow to hold down more strings than two except with great pressure. This leaves two alternative: either the chords are arpeggiated, and the polyphony touched on but not sustained, which permits an easy style while leaving something to the imagination; or the chords are made as nearly simultaneous as possible and as much of the polyphony is sustained as can be held down, which fills in some of the gaps in the sound, but imposes a very strenuous style. The first alternative is historically correct and gives by far the most musical results; but it can be given greater continuity of sound by a somewhat flatter bridge.⁴⁶

Of the two broken chord options provided, Donington believed only one was “historically correct”—a standard arpeggiation where the polyphony, and at times the

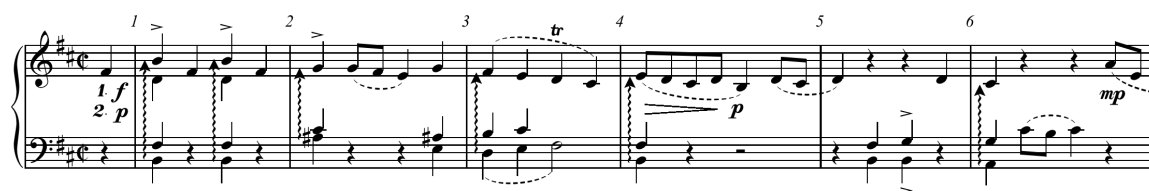
⁴⁴Schröder, *Bach's Solo Violin Works*, 56.

⁴⁵Ibid., 57. In reference to the Adagio from BWV 1001.

⁴⁶Donington, *The Interpretation of Early Music*, 541.

rhythmic values, was left to the “imagination.”⁴⁷ Even though the contrasting method, making the chords sound “as nearly simultaneous as possible” but producing a very “strenuous” sound, was thought by Donington as being historically incorrect, sometimes one must strive for a simultaneous-like broken chord.⁴⁸ Loud and abrasive can sometimes be the desired effect and if the rhythmic motion is brisk, one must play chords as quickly as possible to avoid distortion of the meter. Keyboardists can arpeggiate chords rather leisurely, rather quickly, or play all tones of a given chord simultaneously.

Based on my studies with Dana Ragsdale, I have concluded that the speed of a broken chord is a variable that can be determined by tempo, volume, and affect. For example, the *Tempo di Borea* is a moderately brisk, lively movement and therefore chords should be rolled rapidly, not harshly though, to maintain forward momentum. Notice the repeat is soft but the chords are still broken swiftly.⁴⁹ In this example, dynamics have no bearing on broken chords.



Musical Example 24. Tempo di Borea from Partita I, BWV 1002, mm.1-6 by J. S. Bach, arr. J. Mathena.

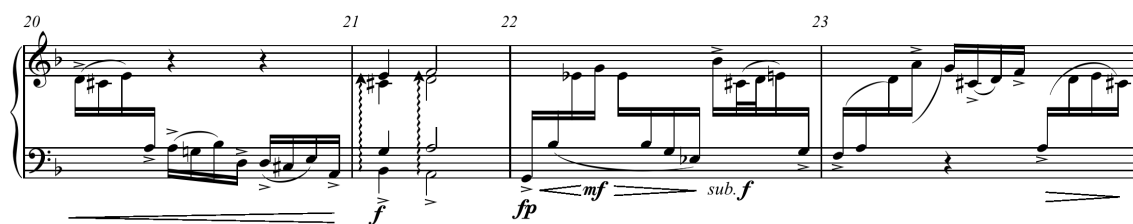
In contrast, the D minor *Sarabanda* is a slow, brooding work leaving the performer time to arpeggiate chords slowly and dramatically. Measure 21 is a wonderful

⁴⁷Ibid.

⁴⁸Ibid.

⁴⁹One of the Baroque traditions was to play the A section of a binary dance soft on the repeat.

opportunity to play two broken chords in two different manners. The metric characteristic of the *Sarabanda* is a strong second beat in each bar, therefore I roll the first chord rather slowly and the second very slow. Both should be forte but the second should obviously be noticeably stronger.



Musical Example 25. Sarabanda from Partita II, BWV 1004, mm. 20-3 by J. S. Bach, arr. J. Mathena.

Where the broken chord begins and ends is also of utmost importance to the performer. Just like those who are adamant about chords being broken only from low to high, there are some who think chords should be broken *on* the beat, that is the first note sounds *on* the beat. In *The Interpretation of Bach's Keyboard Works*, Erwin Bodky wrote “in regard to the arpeggio, we need only mention here that it too, like all other embellishments, must be played *on* and not *before* the beat (as is customary nowadays).”⁵⁰

In contrast to Erwin Bodky's fervent statement, it is again Jaap Schröder who supports options and choices rather than rules and regulations.

Their lowest note can start before or on the beat, but the bass line will have greater definition when it is played on the beat with some degree of lengthening.⁵¹ The chord must start either before or on the beat. If the chord stresses a note of the upper line, it must be played swiftly before the beat. If, on the contrary, the

⁵⁰Erwin Bodky, *The Interpretation of Bach's Keyboard Works*, trans. by Alfred Clayton (Cambridge: Harvard University Press, 1960), 182.

⁵¹Schröder, *Bach's Solo Violin Works*, 56.

lowest note deserves to be remembered as part of a bass line, the chord must start on the beat and make a quick *diminuendo* upwards.⁵²

Based on Schröder's above ideas and Baroque literature, which only rarely addresses *where* to break chords, I have narrowed the choices down to three.

1. Start before the beat and end on the beat
2. Start before the beat and end after the beat
3. Start on the the beat and end after the beat

Any of the combinations from Charts I can be applied to these three options.

Examples of the above three means will be drawn from the G minor *Fuga*, B minor *Sarabande*, D minor *Sarabanda*, and *Ciaccona*. First, I shall revisit mm. 30-4 of the G minor *Fuga* to provide an example of chords that are broken "before" the beat. To keep the eighth-note figures from sounding uneven, the bass note of these chords should sound before the beat and arpeggiate up to the soprano, which should sound on the beat. Example 26 is an example of this and example 27 a rhythmic approximation of what would actually be heard.



Musical Example 26. Fuga from Sonata I, BWV 1001, mm. 30-4 by J. S. Bach, arr. J. Mathena.

⁵²Ibid., 66.



Musical Example 27. Fuga from Sonata I, BWV 1001, mm. 30-4 by J. S. Bach, rhythmic approximation by J. Mathena.

Tempo is more flexible in the slower movements of the sonatas and partitas, so liberties can be taken so long as the pulse remains somewhat steady throughout. With that being said, I will offer one performance suggestion for bar 15 of the B minor *Sarabande*. This measure is reminiscent of the example 26 from the G minor *Fuga*, but in contrast to the solution provided for the *Fuga*, I play the bass *on* the beat which would inevitably place the soprano *after* the beat. If one tries to keep the beat division exactly between the beat, the result will be a hesitant rhythm that will greater enhance the *sigh* effect that Bach has notated.



Musical Example 28. Sarabande from Partita I, BWV 1002, mm. 15-22 by J. S. Bach, arr. J. Mathena.

Most chords in the three thematic statements from the *Ciaccona*, mm. 1-9, 125-32, and 249-57, can be broken widely, dramatically, and *on* the beat. Any chord on a division of the beat can be broken as well but I recommend block chords. Another

consideration I take into account is the relationship of count one to count two. Count one can be broken faster and a bit softer than count two, which is the prominent beat in the *Ciaccona*. Below is my transcription of the second statement of the main theme which concludes the first main section and ushers in the D major portion.

For mm. 126-32, the chords on the second beat should be broken slower and more openly than the chords on count one or three.

125 - 126 127 128 129 130 131 132 tr

Pesante

ff accel.

$f > mp$ $mf > p$ $mp > pp$

Musical Example 29. Ciaccona from Partita I, BWV 1004, mm. 125-32 by J. S. Bach, arr. J. Mathena.

Playing a chord that is broken beginning *before* the beat and ending *after* the beat is tricky and may not be perceptible to most listeners but nonetheless, it is a technique I have employed at times, even if only on rare occasions. The first two bars of the D minor *Sarabanda* each begin with a four-voice chord but since the metric accent is on count two, these chords are actually not the focal point of the measure. I try to establish rhythmic ambiguity by rolling these chords *through* the beat and then playing the rest of each measure in time. This may only be cerebral and not apparent to the listener, but rolling these chords does reinforce count two as the prominent beat in the bar.

Musical Example 30. Sarabanda from Partita II, BWV 1004, mm. 1-9 by J. S. Bach, arr. J. Mathena.

As mentioned earlier regarding the *Ciaccona*, metric accents, or metric stresses, also provide opportunities where the performer can roll chords. These metric stresses are determined by the dance and, if applicable, meter, and tempo. There is very little in the way of research into this topic so the majority of these ideas are my own passed down to me orally through my individual study with Baroque expert, Dana Ragsdale.

Because of the lack of specific writings on this subject one can only infer these ideas through more general statements on performance practice. In his violin treatise, L. Mozart asserted “the style of performing these broken chords is partly indicated by the composer; partly carried out by the violinist according to his own good taste.”⁵³ Unfortunately Bach provided no indication in the sonatas and partitas and one can only speculate as to why. Maybe he knew an adept violinist would break only those chords requiring breaking in whatever manner he chose. Most three-voice chords and all four-

⁵³Leopold Mozart, *A Treatise on the Fundamental Principles of Violin Playing*, translated by Editha Knecker, 2nd edition (New York: Oxford University Press, 1985) (orig. pub. Augsburg, 1756), 161.

voice chords would have to be broken in some manner, so Bach knew necessity would inspire choice. But the inferred accent or accents of a given bar could also signal the player to do something more than just *stress* a certain beat. If chords occur on metric accents, they can be arpeggiated to further emphasize the specific stress of a measure, that is only if the rhythm and tempo allow for it. Jaap Schröder's comments on broken chords tell the performer to make choices based on musical factors. "Chords can be played in different ways, depending on their affect and function. The musical context determines whether a chord demands a leisurely *arpeggio* or a brisk strike."⁵⁴

One should take heed to Schröder's use of the word *function*. I interpret this as sign to break chords that *function* as important landmarks leaving those chords on weak beats or on the division or subdivision of the beat to be broken sparsely if at all. With regards to slower and freer works, Richard Efrati said "in more lyrical passages, on the other hand, where an accent-free Cantabile is desirable, even chords over three strings should be broken."⁵⁵

Since these gentlemen believe in a musical basis for breaking chords, then the defining characteristics of certain movements, namely the metric stress that delineates a dance from another dance, should also be employed in the decision-making process. First I will use some of the movements based on actual dances to demonstrate this.

Because they are based on actual dances, the sonata de camera⁵⁶ to be exact, Bach's solo violin partitas present the player with a clear metric stress or stresses in each

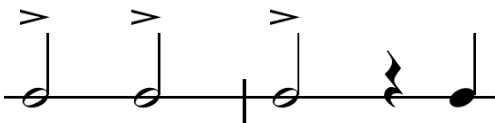
⁵⁴Schröder, *Bach's Solo Violin Works*, 66.

⁵⁵Efrati, 207.

⁵⁶Sonata de camera is essentially a Baroque dance suite.

bar. Each dance had specific body movements that corresponded to certain beats and therefore these agogic accents are to be emphasized in performance. Since the partitas fall under the category of *stylized* dances,⁵⁷ Bach did not always follow the agogic emphases emphatically, so one must be flexible in interpretation. Here are some examples applying the dance steps to the music and how broken chords can reinforce this.

An important aspect of the *Tempo di Borea*, and the dance it is based on, the bourée, is the following rhythm.



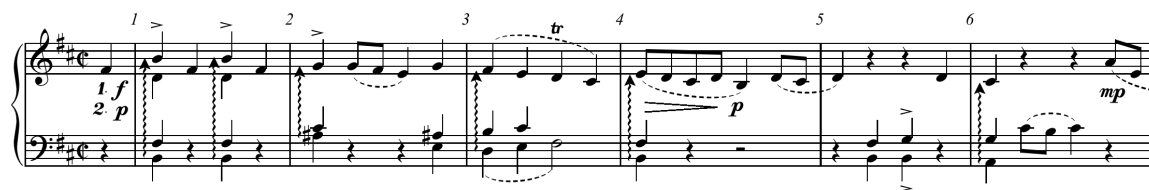
Musical Figure 4. Dance rhythm of the bourée.

Hence one should feel the strong beats as 1- 2 - 1 throughout this movement. The quarter note at the end of the second bar is another characteristic of the bourée and is considered a pick-up to the next couplet.

To convey to the listener the correct *feel*, one need not only emphasize the above rhythmic figure but, when the moment presents itself, arpeggiate chords that happen to fall on these metric pulses. Example 31 is an example of this interpretation. Throughout this movement one can find examples of this and break chords on these beats for emphasis accordingly. To further emphasis the bourée rhythm, one can also *not* break any chord that falls outside this figure. The pick-up quarter note should never be

⁵⁷Stylized dances followed the form and *feel* of the Baroque dances but were not meant to accompany dance.

emphasized as it belongs to the next beat and if a three- or four-voiced chord occurs on the pick-up, it should be executed as a blocked chord and not broken.



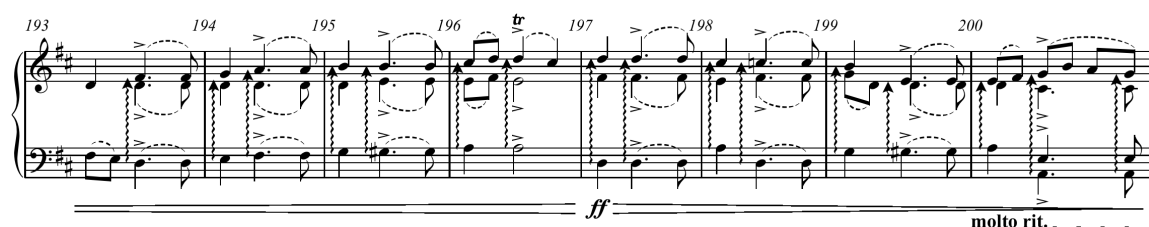
Musical Example 31. Tempo di Borea from Partita I, BWV 1002, mm. 1-6 by J. S. Bach, arr. J. Mathena.

Another example, the B minor *Sarabande*, or saraband as the dance is commonly known, is characterized by a slow, rather solemn but stately feel with a metric emphasis on the second beat of each bar. The strong second beat coincides with the steps of the dance. Those bars of the B minor *Sarabande* that contain only three quarter notes, 1, 5 (with the exception of count 3), 9, 11, 15 (the eighth notes are notated appoggiaturas), 19, 25, and 29, deserve special attention. To provide the listener with the correct *feel* of a saraband, chords on count two of these bars can be broken slower than those on counts one and three. Said chords can also be played more prominently but always within the context of the overall dynamic. On my performance transcription there is a note for the player regarding this suggestion. See example 32 below.

NOTE: The broken chords on the second beat should be broken slower than those on beats one and three.

Musical Example 32. Sarabande from Partita I, BWV 1002, mm. 15-22 by J. S. Bach, arr. J. Mathena.

Like the *Sarabande*, the *Ciaccona* is also distinguished by a prominent beat two in each bar but the form is a series of variations. Some of the variations are not so metrically obvious so one should not feel bound to highlight the second beat all the time. During chordal variations, one should stress count two over count one. This can be achieved through dynamics but also with a broken chord that differs from the broken chord on count one. The climax of the D major section before the second arpeggio passage is a wonderful example where I break every chord on the first and second beat of each measure but the chord on count two is always broken wider and louder than count one.



Musical Example 33. Ciaccona from Partita II, BWV 1004, mm. 193-200 by J. S. Bach, arr. J. Mathena.

Bach's solo violin sonatas, in the church instrumental chamber style of the sonata da chiesa, are comprised of alternating slow and fast movements (slow, fast, slow, fast). While some movements share traits of the dance suite, the sonatas have a different overall feel than the partitas. One cannot find the metric accent of each bar based on dance moves because the movements of the sonatas are not grounded in Baroque dances. Instead, the time signature, tempo indication, if any, and the rhythms can show the performer the strong beats.

The time signature for the G minor *Fuga* is alla breve and there are two stresses per bar. In the example below note that the second emphasis should be more pronounced than the first and during statements of the subject. I break chords only on beats one and two during subject entries, but during the episodes I try to be less predictable. Measures 1-8 represent the exposition and beginning of the first episode. As the counterpoint becomes thicker, I break chords only on strong beats for variety and in an effort to not obscure the musical lines.

Musical Example 34. Fuga from Sonata I, BWV 1001, mm. 1-8 by J. S. Bach, arr. J. Mathena.

The C major *Fuga* from Sonata III is also in alla breve and the tempo is also rather brisk, but I prefer a slightly different approach from the G minor *Fuga*. Even though the time signature dictates two metric stresses per bar, I prefer to accent and arpeggiate the first chord of subject and answer entrances, count three, and then usually break the chord on the next beat, count one. The manner in which this fugue begins dictates these decisions. Other broken chords are influenced by harmony, in particular

dominant to tonic figures. Below is the first 14 bars of the initial statement of the subject, the answer, and subsequent counterpoint.

The musical score consists of two staves. The first staff (treble clef) contains measures 1 through 8. Measures 1-4 are mostly rests, with a half note G in measure 5. Measures 6-8 contain a melodic line starting on G. The second staff (bass clef) contains measures 9 through 14. Measures 9-10 show a bass line starting on G. Measures 11-14 continue the counterpoint with various note values and rests. Dynamics are marked as *mp* (measures 1-4), *mf* (measures 5-8), *p* (measures 9-10), *f* (measures 11-12), *mf* (measures 13-14), and *p* (measures 15-16).

Musical Example 35. Fuga from Sonata III, BWV 1006, mm. 1-14 by J. S. Bach, arr. J. Mathena.

The next issue that can effect broken chords is harmony. Again, writers on the subject do not insist upon this as a significant performance practice, but it is a viable clue for implementing broken chords. One piece of advice comes from Jaap Schröder: “Some strong and sudden dissonant chords can have great impact when played with an energetic down-bow stroke...”⁵⁸ It is usually in good taste to emphasize dissonant chords and resolve them gently. Before the first extended episode in the C major *Fuga*, there is a chord progression that is fascinatingly unique. Bars 59-65 could be analyzed as such:

⁵⁸Schröder, *Bach's Solo Violin Works*, 57.

59 60 61 62

f *ff* *iii* *poco rit.* *poco accel.* *fp*

CMaj: IV³ V⁷ ii⁷ VI [MB]

63 64 65

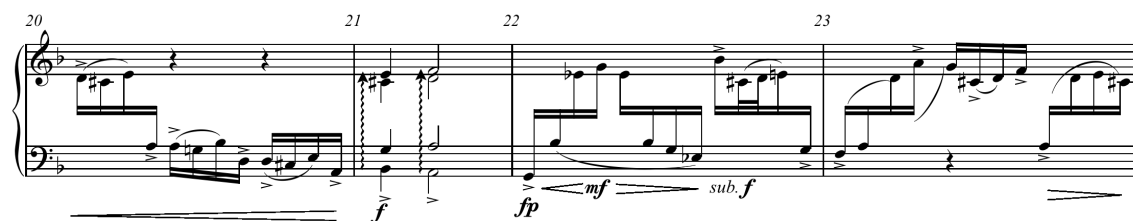
V⁵/V I⁶ rit. V⁷

Musical Example 36. Fuga from Sonata III, BWV 1005, mm. 59-65 by J. S. Bach, arr. and analyzed by J. Mathena.

There are only three chords in the example above and they correspond to the following chords, IV⁷, V⁷, and the modally borrowed VI. Except the VI chord, which is unique because it occurs so abruptly and sounds out of place initially, the IV⁷ and V⁷ each contain a dissonance, a M7 and a tritone respectively. This is enough justification to roll these chords forcefully but for the VI chord I also pull back in tempo, break the chord very strongly and openly, then immediately drop in volume, accelerate back to tempo primo, and crescendo through the V/V.

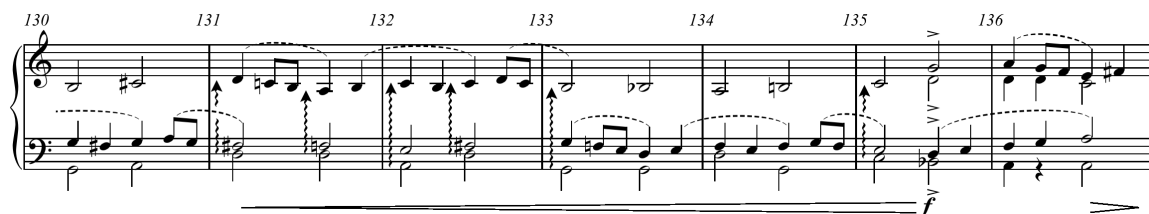
Another example of harmony influencing broken chords can be found in the D minor *Sarabanda*. In this movement, bar 21 presents the performer with a unique problem. Emphasizing the dissonant chord and resolving it to a less emphasized consonant chord is common performance practice, but in bar 21 the significant chord is the i⁶₄ because of its metric placement. Therefore the vii⁰⁴₂ on count one should lead the listener to the cadential 6/4 on count two. Volume is one way but also the density of the

broken chord can convey emphasis to the listener. I break the 6/4 chord slower than the diminished 7. Whether or not one plays these two chords *on*, *before*, or *during* the beat is of no consequence but I prefer playing the bass *on* the beat.



Musical Example 37. Sarabanda from Partita II, BWV 1004, mm. 20-3 by J. S. Bach, arr. J. Mathena.

One final example of harmony dictated choices comes again from the C major *Fuga*, only this time the technical limitations of the marimba account for my decision. Count two of m. 135 is a G minor triad in first inversion. Because of the Bb in the bass voice and the octave between the tenor and alto, I choose not to break this chord. At this point there is a change of mode which I believe must be accentuated, a rolled chord simply does not have enough power to highlight the change from C major to G minor. It is because of the angle of my left arm that prohibits a firm bass note from sounding so I have found an accented blocked chord is the best option for me. Still, a broken chord would be perfectly acceptable there but I prefer a block chord.

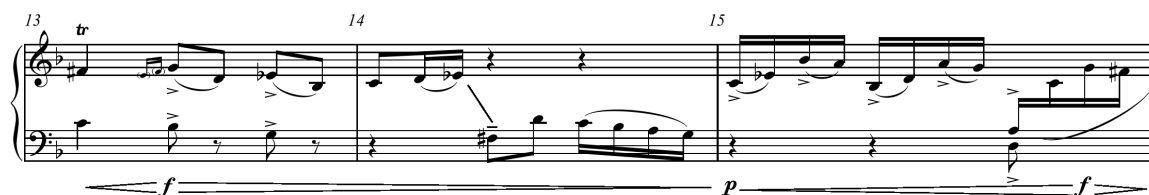


Musical Example 38. Fuga from Sonata III, BWV 1005, mm. 130-6 by J. S. Bach, arr. J. Mathena.

Finally, added ornamentation to broken chords is the last topic of this chapter.

“Baroque ornamentation is more than a decoration. It is a necessity. It is of course a very fluid necessity; but there has to be enough of it and of the right kinds.”⁵⁹ This can be as simple as ending the chord with a mordent or unmarked trill ending and, in some cases, a retardation or appoggiatura. Even acciaccaturas have their place in certain broken chords, but, as with all ornamentation, anything added to a broken chord should be tasteful, not overdone, and sound spontaneous.

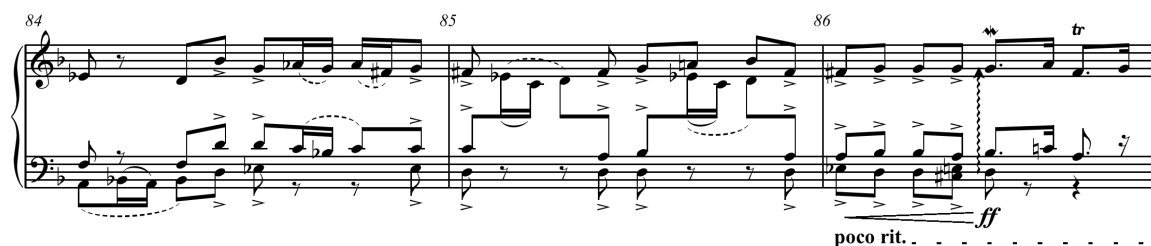
Ending a broken chord with a trill is very common and obligatory at cadences. There are too many examples to isolate any of significance but there is one that I add a turned ending. In bar 13 of the D minor *Sarabanda*, I add a turned ending to the trill to draw further attention to count two, the strong beat of the bar.



Musical Example 39. Sarabanda from Partita II, BWV 1004, mm. 13-5 by J. S. Bach, arr. J. Mathena.

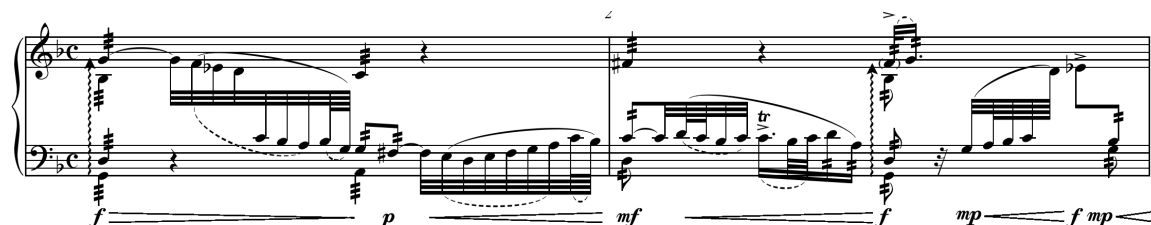
A mordent at the end of a broken chord is also a nice addition. I reserve this for chords that end on the soprano, therefore the chord should begin *before* the beat leaving the mordent to sound *on* the beat. Examples 39 from my transcription of the G minor *Fuga* can provide a representation of the this in application. Count three of m. 86 contains a mordent on the cadential 6/4 chord.

⁵⁹Donington, *Baroque Music*, 91.



Musical Example 40. Fuga from Sonata I, BWV 1001, mm. 84-6 by J. S. Bach, arr. J. Mathena.

Like the mordent, appoggiaturas and retardations are two ornaments that can be played at the end of a broken chord for variety or emphasis. The next musical fragment is an example of a retardation that I place on the first cadence in the G minor *Adagio*.



Musical Example 41. Adagio from Sonata I, BWV 1001, mm. 1-2 by J. S. Bach, arr. J. Mathena.

The next is an example of added appoggiaturas from the *Andante* from Sonata II. These occur in bars 4, 8, and 11, which all happen to be tonic resolutions of dominant chords. These additions could be reserved only for the repeat of the A section.

NOTE: Always keep the eighth note accompaniment softer than the right hand

2 3 4

5 6 7 8

9 10 11

pp p mp mf p

mp mf f mp

f mp p p

Musical Example 42. Andante from Sonata II, BWV 1003, mm. 1-11 by J. S. Bach, arr. J. Mathena.

There are a few moments where I add a missing chord tone, usually the third, when Bach has spelled the chord incompletely. Final chords are typically reserved for this idea. *Menuet I* ends on an open E major chord with no third but the V7 before it could resolve easily to a complete E major triad. I add the third only on the last time.

27 28 29 30 31 32 33 34

a tempo

mp mp f

rit.

Musical Example 43. Menuet I from Partita III, BWV 1006, mm. 27-34 by J. S. Bach, arr. J. Mathena.

Non-chord tones can also be added to Broken chords. Regarding this idea, Donington said “he is not obliged to confine himself to the notes written in the chords,

provided he keeps to the harmony together with such extraneous notes as can be momentarily introduced as passing acciaccaturas...’’⁶⁰ Even though he was speaking of arpeggio passages, this idea can still be applied to broken chords. Acciaccaturas may be placed between chord tones but this is ill-advised in most cases for the marimba. Because the marimbist cannot control note length, acciaccaturas may sound as part of the chord instead of an embellishment. One way around this is to use a tremolo and *roll* only the chord tones after the acciaccatura has sounded.⁶¹ Bars 185-7 of the *Ciaccona* are three instances where I add acciaccaturas.

For mm. 185-200, the chords on the second beat should be broken slower and more openly than the chords on count one.

For mm. 185-7, the eighth note in the alto voice on count two is an added acciaccatura.

Musical Example 44. Ciaccona from Partita II, BWV 1004, mm. 185-92 by J. S. Bach, arr. J. Mathena.

⁶⁰Donington, *The Interpretation of Early Music*, 280.

⁶¹I speak of the percussion term *roll* which is the same as the tremolo.

CHAPTER IV

ARPEGGIO PASSAGES

During the Baroque and into the early Classical era, the unwritten practice of arpeggio realization could be found in many instrumental solo works, in particular those written for string instruments. “In virtuoso violin music of the late baroque schools, passages occur which are written as chords but intended as arpeggiation.”⁶² Based on this passage, one might think that these passages are interpreted as mere broken chords, but while the Baroque arpeggio section of a work shares characteristics with breaking chords, there is one significant difference—the arpeggiations of an arpeggio passage must have a rhythm that can be quantized as such. Robert Donington differentiated between these two practices.

Where, in addition to spreading the chord in more or less elaborate patterns, the performer gives these patterns a melodic value, he makes not a plain arpeggio but a figurate arpeggio. He may do so exclusively from the notes proper to the chord; or he may diversify the chord by momentarily introducing notes which are foreign to it.⁶³

In the previous chapter, I stressed the importance of ambiguity necessary for broken chords to appear as a chord and not a notated rhythmic figure. In this chapter the art of improvising an arpeggio passage, which the reader will discover differs from broken chords but still shares some attributes, will be discussed using literature from the Baroque through the present.

In its barest form, an arpeggio realization consists of rapid ascending and descending lines and the number of these peaks and valleys are dictated by the length of

⁶²Donington, *The Interpretation of Early Music*, 541.

⁶³Ibid., 277-8.

the chord and the speed of the rhythm. Many writers of the eighteenth century had very little to say on the manner of execution. In *Treatise on the Fundamental Principles of Violin Playing*, Leopold Mozart simply said “as the Arpeggio is indicated in the first bar...so must the following notes, written one above the other, be continued in the same manner.”⁶⁴ Even J. S. Bach’s own son, C. P. E. Bach, mentioned only briefly that “the word ‘arpeggio’ written over a long note calls for a chord broken upward and downward several times.”⁶⁵ Johann Mattheson, recognized the freedom the performer was allowed in the arpeggio passage and thus determined these phrases were played “according to his [the performer] pleasure.”⁶⁶ Still, the vagueness of which these writers discuss the arpeggio passage does allude to an overarching idea that the performer was allowed certain liberties, so long as the harmony and voice leading remain intact.

In contrast, some performance practice scholars of recent years have had much to say on the matter. Using these recent writings, I will present nine passages from the sonatas and partitas that represent a varied, creative, and artistic, but still historically grounded, approach to improvising an arpeggio passage on the marimba. Since I am only using five movements to present ten examples of arpeggio realizations, this chapter will be organized according to movement and not concept like the previous chapter.

⁶⁴Mozart, 161.

⁶⁵C. P. E. Bach, *Essay on the True Art of Playing Keyboard Instruments*, translated and edited by William J. Mitchell (New York: W.W. Norton, 1949) (orig. pub. Eulenburg, 1753), 159.

⁶⁶Mattheson, 578-9.

Fuga from Sonata I, BWV 1001

Bach sometimes signaled the start of an arpeggio passage with the word *arpeggio* and even provided a model to aid the performer in his rendering.⁶⁷ Sometimes, he did not. The *Fuga* from Sonata I contains a famous example of an arpeggio passage that is *not* indicated by Bach. In his writings on the violin, Joseph Szigeti made these remarks:

The pedantically literal reading of a facsimile like that of the Bach Solo Sonatas can lead into absurdity. When Bach in the G minor Violin Fugue notates:



Musical Example 45. Fuga from Sonata I, BWV 1001, mm. 33-41 by J. S. Bach (autograph manuscript), 2.

he undoubtedly means us to use some arpeggiated form of the sequence.⁶⁸ In this passage (bars 35-41) Bach only put down the melodic and harmonic progression, leaving it to the player to *realize* the text by arpeggiating it.⁶⁹

Writers and performers since the days of Mendelssohn and the acclaimed nineteenth-century virtuoso violinist, Joseph Joachim, have realized this passage in a number of ways according to technical and musical ability and the particular instrumental idiosyncrasies. But how did they know that these seven bars were meant to be arpeggiated? Besides the possibility of an oral transmission, which we shall never know for sure, I believe Bach provided a few clues. The note values are all *full* and by that, I

⁶⁷Refer to the analysis of the *Ciaccona* later in this chapter for an example of this.

⁶⁸Joseph Szigeti, *Szigeti of the Violin* (New York: Dover Publications, 1979), 108-9.

⁶⁹*Ibid.*, 110.

mean there are no rests and a literal rendering on the violin is impossible. This means Bach intended constant sound with no breaks. Thus arpeggiations of these figures would be the only logical choice because a violin cannot sustain two notes under one moving line or one voice over two moving lines. Regarding this dilemma, Arnold Dolmetsch cited the writings of Rameau.

In the advice to players prefacing the “Concerts en Trio” of Rameau (1741), there is a direction to the viol player which is most useful in indicating how to treat arpeggios containing important inner parts. Rameau says that in places where the violist cannot conveniently play two or more notes together, he must play them arpeggio, *finishing upon the one on the side of which the melody continues*. This is the key to the interpretation of many arpeggios of Bach.⁷⁰

Harmonic motion provides another clue that this passage was be arpeggiated. A pedal D is introduced midway slowing the harmonic drive to a sustained dominant chord. This idea of pedal points as indications of arpeggio phrases will be discussed further in this chapter.

Some players have attempted to execute this phrase just as it is written, with the half notes in bars 35-7 played short allowing the eighth-notes to sound together.⁷¹ “Practically speaking, a literal realization of such baroque polyphonic notation is not only erroneous, but in many cases simply impossible.”⁷² Even though some have attempted to interpret mm. 35-7 as notated, most agree on some sort of arpeggiation of bars 38-41, even if it is just elementary sixteenth notes.⁷³ Typically, players begin the arpeggiations

⁷⁰Dolmetsch, 270.

⁷¹Jascha Heifetz and Itzhak Perlman have both performed bars 35-7 on recordings. Jascha Heifetz, *Bach: Sonatas & Partitas*, RCA Victor, LM 6105, CD, 1952. Itzhak Perlman, *J. S. Bach: Sonatas and Partitas for Solo Violin*, EMI Records, CDS 7 49483 2, 49484 2, and 49485 2, CD, 1988.

⁷²Schröder, “The Chaconne and the Baroque Tradition,” 134.

⁷³See example 46. Note that the pedal D can be on the beat and the division or on the subdivision of each grouping of sixteenth notes.

in bar 35 on the & of two. The Baroque violin expert, Jaap Schröder, said “focus on the content of the chords, on their progression and not on the virtuoso quality of the right hand. A straightforward up-and-down movement on each chord is all that is needed.”⁷⁴

There are only a finite number of ways to execute this section but the only convention a marimbist must remember is to consider the idiomatic idiosyncrasies of the marimba. Following example 46, which is Bach’s original, transposed down an octave for convenience of comparison, are two realizations of this phrase. Both interpretations are quite acceptable solutions, grounded in historical practices, and idiomatic to the marimba, but one is significantly more advanced than the other. Regardless of the technical difficulties, a marimbist must always play musically and only attempt those arpeggiations that allow for effortless expression.



Musical Example 46. Fuga from Sonata I, BWV 1001, mm. 35-41 by J. S. Bach transposed down one octave by J. Mathena.

⁷⁴Jaap Schröder, *Bach's Solo Violin Works*, 67.

35 36 37

p *mf*

38 From here through bar 41, dynamics pertain only to the right hand 39

p *sub. f*

40 41

Musical Example 47. Fuga from Sonata I, BWV 1001, mm. 35-41 by J. S. Bach, arr. J. Mathena.

While example 47 is a fine rendition, players of more advanced technical facility can explore realizations such as the next example. As the harmonic motion increases over the D pedal, the rhythm becomes denser, moving from sixteenth-note triplets to thirty-second-notes and finishing in a frenzy of thirty-second-note triplets. This next realization is the one I prefer and is therefore found in the performance edition of this movement in Appendix B.

35 36

p

37 Start bringing out right hand

mf

38 For bars 38 and 39 dynamics pertain to only the right hand

p

39 *sub.f*

40 For bars 40 and 41 dynamics pertain to only mallets 3 and 4

41

Musical Example 48. Fuga from Sonata I, BWV 1001, mm. 35-41 by J. S. Bach, arr. J. Mathena.

Tempo di Borea from Partita I, BWV 1002

In the *Tempo di Borea*, there are no notated arpeggio passages and historically, players, editions, or documents do not mention any added arpeggiations, but one must remember “the word ‘arpeggio’ is not always indicated in the manuscript.”⁷⁵ Based on Efrati’s obvious observation, I do not think this precludes anyone from experimenting with a few unorthodox arpeggio phrases for variety, especially on the repeat of the A and B sections. “*Never the same thing twice* is an old baroque principle, stated by Quantz and applicable to all repeats.”⁷⁶ A brief arpeggio phrase the second time through the A or B section would certainly be in keeping with the Baroque ideal of embellishing the music the second time through a phrase. With these ideas in mind, I choose to play mm. 21-4 like



Musical Example 49. Tempo di Borea from Partita I, BWV 1002, mm. 21-4 by J. S. Bach, arr. J. Mathena.

but Bach actually notated it as



Musical Example 50. Tempo di Borea from Partita I, BWV 1002, mm. 21-4 by J. S. Bach, transposed down one octave by J. Mathena.

⁷⁵Efrati, 193.

⁷⁶Schröder, *Bach's Solo Violin Works*, 91.

He did not specify to take liberties during these bars but in the G minor *Fuga*, Bach also did not designate for one to begin an arpeggio phrase in bar 35 as well. The arpeggio section of the G minor *Fuga* has become such an accepted practice that if a performer did not arpeggiate these bars, he would be considered by most experts to have not accurately played the piece. Therefore, my argument contends that maybe there are other moments throughout the sonatas and partitas that can be arpeggiated whether or not Bach specified. This idea will be developed further in the *Ciaccona*, the C major *Fuga*, and the *Gavotte en Rondeau*.

Gavotte en Rondeau from Partita III, BWV 1006

Like the *Tempo di Borea* and C major *Fuga*, the *Gavotte en Rondeau* has two moments which lend themselves quite easily to simple arpeggiations. For mm. 25-35, Bach wrote the following:

The musical score for measures 25-35 of the Gavotte en Rondeau from Partita III, BWV 1006, is presented in three systems. Each system contains two staves (treble and bass clef). The key signature is G major (one sharp). The time signature is 3/4. The notation shows a simple arpeggiated pattern in the right hand across measures 25-28, 29-31, and 32-35. The left hand provides a steady accompaniment of eighth notes.

Musical Example 51. Gavotte en Rondeau from Partita III, BWV 1006, mm. 25-35 by J. S. Bach, transposed down one octave by J. Mathena.

Even though this passage as Bach wrote it can be easily executed on the marimba, this is a wonderful place for improvisation. In bars 25, 26, 29, 30, 32, and 33 I choose to play the right hand quarter- and eighth-notes as sixteenth-notes in between the left hand eighth notes. Below is my realization.

The musical score is for a Gavotte en Rondeau from Partita III, BWV 1006, measures 25-35. It is written in G major (one sharp) and 3/4 time. The score is presented in three systems of staves. The first system (bars 25-28) shows the right hand playing quarter and eighth notes as sixteenth notes between the left hand's eighth notes. The second system (bars 29-31) continues this pattern. The third system (bars 32-35) shows a similar pattern. Dynamics include mf, mp, and f.

Musical Example 52. Gavotte en Rondeau from Partita III, BWV 1006, mm. 25-35 by J. S. Bach, arr. J. Mathena.

In the altered bars above, Bach's quarter- and half-note rhythms of the upper voice will not be audible to the listener, but the moving eighth-note motif in the left hand, clearly the main line, would be unaltered and understood by the listener as the principal focus. Later in this movement there is another instance very similar to the previous phrase. Because mm. 82-7 consist of an active left hand line accompanied by long notes in the right I also use the same realization for this passage.

Musical Example 53. Gavotte en Rondeau from Partita III, BWV 1006, mm. 82-8, J. S. Bach, arr. J. Mathena.

In a resonant performance space, the soprano in mm. 82-7, if played soft enough with marimba mallets that have little to no contact sound, can sound like a sustained long tone. Based on this theory, the listener could perceive these pitches as the long notes that Bach wrote even though these tones are actively involved in rhythmic figures.

Fuga from Sonata III, BWV 1005

There are no indications for arpeggios in the C major *Fuga* but there are two passages which I believe appear similar to the accepted arpeggio passage from the G minor *Fuga*. In bar 56 of the C major *Fuga* the bass has the prominent line accompanied by half note chords in the upper three voices. This exact same phrase reappears in the recapitulation (mm. 343-6).

Musical Example 54. Fuga from Sonata III, BWV 1005, mm. 55-8 by J. S. Bach, transposed down one octave by J. Mathena.

I choose to play these bars, as well as mm. 343-6, in the following manner. One should notice that the bass is unaltered, but the other voices are played in an exact sixteenth-note rhythm.



Musical Example 55. Fuga from Sonata III, BWV 1005, mm. 55-8, J. S. Bach, arr. J. Mathena.

During the course of this study, I could find no literature or source of any sort to substantiate this next idea, but I believe mm. 186-200 and 273-87 are actually Bach's notated arpeggio realizations. If this can be regarded as such, then the realizations that follow can be viewed as possible variations. Upon listening to these phrases and then comparing them to my realization of the arpeggio passage from the G minor *Fuga*, one will notice striking similarities. Therefore, these could be an arpeggio realizations. Earlier in this chapter, I made the observation that pedal points could be a clue to when a passage was to be arpeggiated. It certainly was true in the G minor *Fuga* and in no other movement, except the C Major *Fuga*, will one find any longer pedal points than those beginning at bar 186 and 273. Therefore, these could be an arpeggio realizations.

If they are indeed arpeggio realizations, then Bach's realization is only a suggestion, maybe only a shorthand simple solution to offer the performer a place to start, and therefore open to interpretation by the performer. Since these two phrases are almost identical in every way, except the tonal center, I suggest these realizations are analogous.

Musical Example 56. Fuga from Sonata III, BWV 1005, mm. 186-200 by J. S. Bach, transposed down one octave by J. Mathena.

Musical Example 57. Fuga from Sonata III, BWV 1005, mm. 186-200 by J. S. Bach, arr. J. Mathena.

Musical Example 58. *Fuga* from Sonata III, BWV 1005, mm. 273-87 by J. S. Bach, transposed down one octave by J. Mathena.

Musical Example 59. *Fuga* from Sonata III, BWV 1005, mm. 273-87 by J. S. Bach, arr. J. Mathena.

Ciaccona from Partita II, BWV 1004

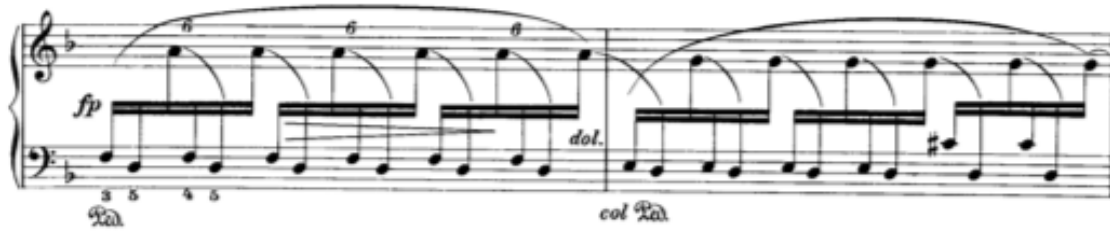
I will conclude with a discussion of the probably the most performed and transcribed movement of the entire set of sonatas and partitas, the mighty *Ciaccona* from Partita II. There are two passages marked *arpeggio* by Bach; bar 89 and 201. On count one of m. 89, Bach provided a model of how one should arpeggiate this passage.⁷⁷ Some performers adhere to the thirty-second-note motif throughout but most transition to thirty-second-note triplets, or some other rhythmic variation, somewhere in the middle of this section. In m. 89, Bach wrote the following:



Musical Example 60. Ciaccona from Partita II, BWV 1004, mm. 89-91 by J. S. Bach (autograph manuscript), 14.

The word *arpeggio*, along with the first beat of measure 89, provides the performer with Bach's suggested interpretation. However, this pattern does not fit all chords well, and thus, performers vary the figuration and many alter the rhythm for expressive purposes. Even though, Bach provides one beat of realization, some performers and transcribers deviate instantly with no regard for what is written. For example, in Brahms's Piano Study No. 5 for the left hand, which is a piano transcription of the *Ciaccona*, he begins immediately with sextuplets.

⁷⁷For examples of this realization, see Carl Flesch, ed., *Sonaten und Partiten* (New York: C. F. Peters, 1930); Eduard Herrmann, ed., *Bach: Sonatas and Partitas for the Violin* (New York: Schirmer, 1986); Ivan Galamian, ed., *6 Sonatas and Partitas, S. 1001 – S. 1006 for Solo Violin* (New York: International Music Company, 1971); and Joseph Joachim and Andreas Moser, eds., *Bach: Six Sonatas and Partitas for the Violin* (New York: Kalmus, 1942).



Musical Example 61. Study No. 5 for the Left Hand, mm. 89-90 by Johannes Brahms, Study No. 5 (for left hand alone) after Bach's *Chaconne*, BWV 1016 from Piano Works, vol. 2, edited by E.V. Sauer (Boca Raton, FL: Kalmus, 1985) (orig. pub. Vienna, 1878), 6.

The piano arrangement of Frederico Busoni begins very close to Bach's original but then he attempts to dazzle the listener with a technical display and Romantic expression indicative of virtuoso piano playing of the nineteenth century. While this and most other piano arrangements provide what may seem to be the most creative solutions, it will be shown that a sheer technical tour de force arpeggiation of the chord is not the extreme extent of possibilities afforded to the performer.

8

articolato assai

ff *non dim.*

tranquillo
sehr weich

p subito

II Ped.

sempre p

poco marcato e tenuto
sempre Ped.

distintamente

5

ossia: m. 4. m. 5.

simile

2 5 4 1 2

crescendo non troppo

10

sempre piu f poco a poco; animando il tempo
non legg

Pedale ogni quarto
Pedal zu jedem Viertel

più cresc.
poco accell. #

ossia:

poco a poco allargando il tempo

ten. ten. ten.

marcato
mit Bedeutung

11

ff *m.d.* *ff* *m.g.* *più allargando*

ossia: *fff*

tempo animato

fs *ten.* *poco f* *fs* *poco f*

Musical Example 62. Chaconne in D moll, mm. 87-122 by J. S. Bach, arr. Frederico Busoni, *Chaconne für Violine allein* (New York: Breitkopf & Härtel, 1897), 8-11.

While these examples are unique and idiomatic, chord tones, rhythmic variety, and extensions of the figurations, both upward and downward, are the only additions.⁷⁸ These examples incorporate nothing in the way of passing tones, accacciaturas, or any other ornamentation. As a matter of fact, no source surveyed for this document deviated from the notes Bach provided even though there is an abundant of literature that says performers may be creative and inventive and add notes outside the chord. This was indeed a source of discontent to some writers on the subject. Scholars such as Heinrich Schenker, Robert Donington, Walter Emery, Arnold Dolmetsch, and David Boyden all believed in a freer, performer-centered approach to arpeggio passages. Below is evidence to justify an arpeggio realization that goes beyond the notes and chords and into the realm of Baroque free improvisation, a tradition long lost to most modern musicians. “Not enough modern performers are yet capable of doing this.”⁷⁹

In his critical commentary to Bach’s Chromatic Fantasy, Heinrich Schenker said

And now, when this unparalleled artist [Bach] leaves the execution of an arpeggio to the performer, he is insolently offered a childish technique, one that shows not the slightest trace of artistic infusion! Time and again one encounters the same kind of performance: the chord tones or other notes indicated in the figure are played as an ascending and descending arpeggio whose peak is always placed on the strong part of the measure. In a particularly inspired mood one might venture to add a note in the lower octave *ad pompam ed ostentationem*!⁸⁰

To those who think the score is sacred, one of the forefathers of Baroque performance practice scholarship, Arnold Dolmetsch, presented some of the most radical

⁷⁸Note that typical musical elements, phrasing, articulation, dynamics, etc. are excluded from this argument. These are obligatory and not the focus of this study.

⁷⁹Donington, *The Interpretation of Early Music*, 153.

⁸⁰Schenker, J. S. Bach’s Chromatic Fantasy and Fugue: Critical Edition and Commentary, translated and edited by Hedi Siegel (New York: Longman, 1984), 35.

ideas regarding arpeggio realizations to dismiss the idea that one cannot deviate from the notes on the page.

Unfortunately, original examples of the interpretation of complicated arpeggios are not common. We can understand...what freedom the performer was allowed in such cases, even to the extent of temporarily altering the bass of the harmony.⁸¹

Half a century after Schenker and Dolmetsch proposed these ideas, Walter Emery published a book dedicated to J. S. Bach and ornamentation in his music. He said

It is unfortunately impossible to say anything helpful about those keyboard works (such as the Chromatic Fantasia) in which a series of block chords are marked *arpeggio*. They come under the heading of free improvisation rather than of ornamentation; and it appears that no models contemporary with J. S. Bach have been preserved. The player will do well to base his interpretation on that of some musicianly editor: to bear in mind Dolmetsch's method of exhibiting part-writing and Emanuel Bach's statement that the chords should be spread upwards and downwards several times: and not by any means to consider himself bound to the printed notes and the conventional arpeggio patterns. Similar passages occur in string music. They are less troublesome, because it is usually obvious that all the chords are to be spread according to a given pattern [bar 89 of the ciaccona]; and even when the pattern is not given...the player need to do no more than invent a straightforward arpeggio figuration that suits his instrument.⁸²

In *The History of Violin Playing* author David Boyden reinforces the thoughts of Schenker, Dolmetsch, and Emery.

To a modern player the score means just what it says, and the so-called *Ur-text* is sacrosanct. On the other hand, in older times many scores were simply sketches of what the composer intended, and a modern player, trying to play the notes exactly as they appear on the printed page or manuscript, may actually be violating rather than fulfilling the composer's intentions...The composer of violin music wrote out the polyphonic progressions in an idealized way to show the true counterpoint, but he left the actual 'realization' of the score to the violinist according to his desires and abilities. Moreover, this idealized version of the music helped the player to understand the musical progression otherwise concealed in the figuration. The liberties permitted performers were far greater in

⁸¹Dolmetsch, 271.

⁸²Walter Emery, *Bach's Ornaments* (London: Novello, 1953) 103-4.

earlier times, and ideally the violinist was an artist of sufficient stature to rise to the level of his opportunities.⁸³

More recently, Robert Donington has written on practices that are in direct conflict with those who believe one should not add too much to the notated music.

Where the composer has not shown the figuration by writing out a bar or two in full, the performer has full liberty to introduce what figures he prefers, in any variety of rhythm suitable to the context, and with any variety of bowing. He is not obliged to confine himself to the notes written in the chords, provided he keeps to the harmony together with such extraneous notes as can be momentarily introduced as passing acciaccaturas (simultaneous acciaccaturas are confined to keyboard instruments).⁸⁴

Before my realization of mm. 89-120, evidence from Bach himself will be used to show innovative options one has when approaching arpeggio passages. Erwin Bodky, a Bach keyboard specialist, and the theorist, Heinrich Shenker, both cite the A minor Prelude from BWV 894 as an example of Bach's own arpeggio realization.

The gigantic *cadenza* which is found in the great A minor Prelude (spiritual father of the first movement of the Triple Concerto in A minor) reveals how many auxiliary notes could be built in at *chord arpeggios*.⁸⁵

The next passage comes from Schenker's critical edition of the Chromatic Fantasy. He uses the A minor Prelude to entice performers to reach beyond the chords and furnish a unique rendition of the Fantasy's arpeggio passages.

Let us imagine that, close to the end of J. S. Bach's Prelude and Fugue in A minor, the composer, instead of writing out his own arpeggiation, had merely supplied the performer with chords.⁸⁶

⁸³David D. Boyden, *The History of Violin Playing from its Origins to 1761 and its Relationship to the Violin and Violin Music* (London: Oxford University Press, 1965), 272.

⁸⁴Donington, *The Interpretation of Early Music*, 280.

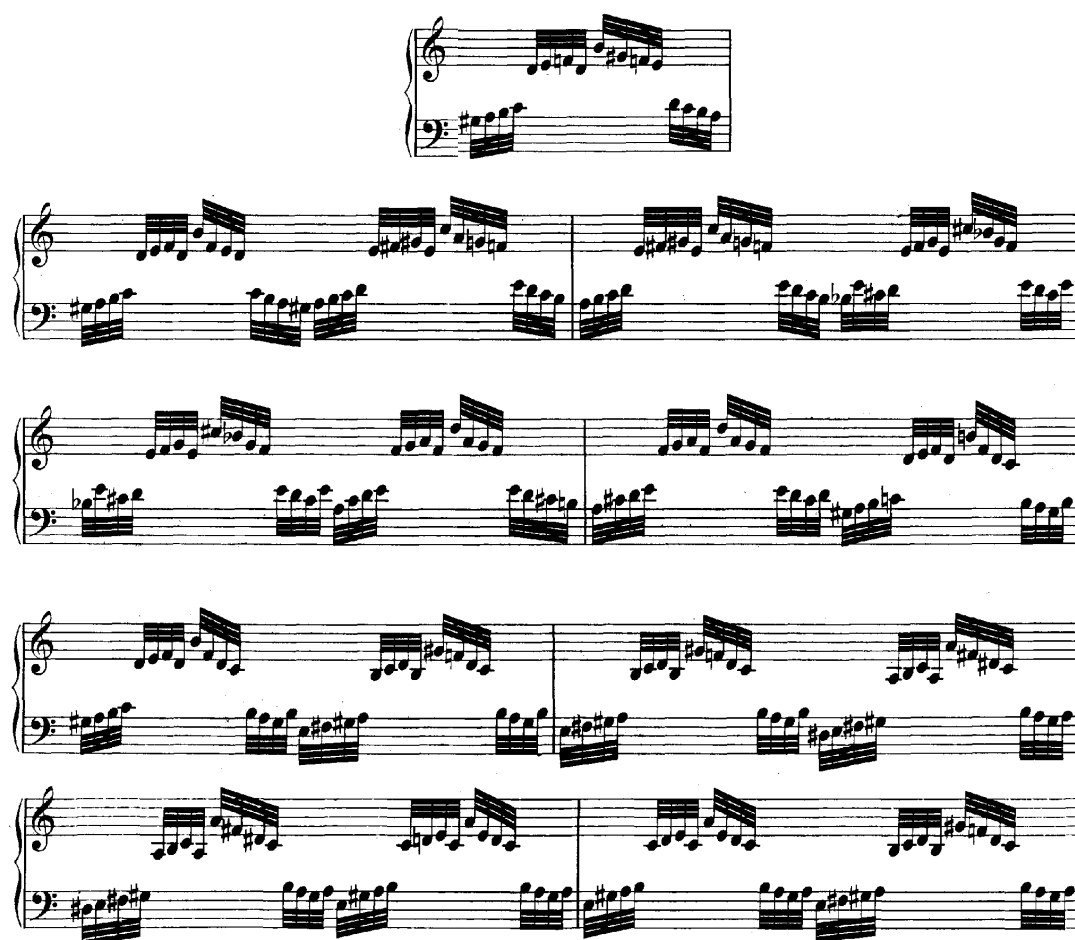
⁸⁵Bodky, 330-1.

⁸⁶Schenker, 32.



Musical Example 63. Prelude in A Minor, BWV 894, mm. 77-85 by J. S. Bach, reduction by Heinrich Schenker, J. S. Bach's Chromatic Fantasy and Fugue; Critical Edition and Commentary, translated and edited by Hedi Siegel, (New York: Longman, 1984), 32.

What would the performer play then? Nothing but two ascending and descending arpeggios, as the "rule" dictates...But now let us enter a different sphere, the glorious world created by Bach.⁸⁷



Musical Example 64. Prelude in A Minor, BWV 894, mm. 77-85 by J. S. Bach, Johann Sebastian Bach's Werke 36, edited by the Bach-Gesellschaft Society (Ann Arbor: J.W. Edwards, 1947), 96-7.

⁸⁷Ibid.

Above all, note how Bach exploits the close position of his chords. Instead of limiting his arpeggiation to chord tones, he interpolates regular diatonic passing tones and acciaccaturas. Undoubtedly, these little dissonant notes have an enlivening effect and thus enhance the beauty of the passage. In addition, he gives his arpeggio figure a very characteristic angular profile: just before changing from an upward to a downward direction, he suddenly bends back (see the last two thirty-second notes of the third quarter of the first figure).⁸⁸

For my marimba realization of bars 89-120 of the *Ciaccona*, I adhere to the *moto perpetuo* tradition utilized by violinists and other instrumentalists, but instead of simply *playing the chords*, I add passing tones, scalar figures, and a few ornaments, while always in accordance to Bach's harmony. If my realization is compared to the original (example 65), one would see that the main line, regardless of voicing, is *on* the beat, division, or subdivision of the beat and never in between. Instead of repeating the bass on the beat and the division, I incorporate and manipulate a three-note scalar fragment that leads into the bass and thereby places the notated bass *on* the beat. Starting in bar 105, this three-note motif comes between the bass notes and drives the thirty-second-note sextuplets ever higher to the climax of this section, bar 113. After a lengthy crescendo and ritard into m. 113, I begin the long descent down to the final cadence with powerful octaves in the left hand, now on the subdivision of the beat, accompanied by the chromatically falling right hand filling out the remainder of the thirty-second-note sextuplets.

In my research, I have yet to find a recording or edition that takes this many liberties but I believe this is what writers like Dolmetsch and Schenker meant. Based on these scholars' ideas, I also believe that keyboardists and other instrumentalists of the Baroque, given this same piece of music, also would have adapted this section in a

⁸⁸Schenker, 32-33.

similar manner using arpeggiations common to their instrument. Example 65 is Bach's original, transposed down one octave, and example 66 is my realization.

Musical Example 65. Ciaccona from Partita II, BWV 1004, mm. 89-120 by J. S. Bach, transposed down one octave by J. Mathena.

97 *mp*

98

99 *f*

100 *poco rit.*

101 *a tempo* *p*

102

103 *mf*

104

105 *p*

106 *f*

107 *mp* *f* *mp*

108 *mf* *f*

The musical score is for a piano piece, measures 97 through 108. It is written in a single system with a grand staff (treble and bass clefs). The key signature has one flat (B-flat). The score includes various dynamic markings: *mp* (mezzo-piano), *f* (forte), *p* (piano), *mf* (mezzo-forte), and *poco rit.* (poco ritardando). Measure 97 starts with a *mp* marking. Measures 98 and 99 show a crescendo leading to a *f* marking. Measure 100 begins with a *poco rit.* instruction. Measure 101 returns to *a tempo* and starts with a *p* marking. Measure 102 continues the piano texture. Measure 103 features a crescendo to a *mf* marking. Measure 104 shows a decrescendo. Measure 105 is marked *p*. Measure 106 is marked *f*. Measure 107 has a dynamic contour of *mp*, *f*, and *mp*. Measure 108 starts with *mf* and ends with a *f* marking. The score includes many sixteenth-note passages, some with slurs and accents. There are also some triplet markings (indicated by a '6' over a group of notes) in measures 103, 104, 105, 106, 107, and 108.

109

p

110

111

112

fff

molto rit.

113 *Slow*

accel.

114 *faster*

115

116

rit.

117 a tempo

118

119

120

f *mp*
accel.

Musical Example 66. Ciaccona from Partita II, BWV 1004, mm. 89-120 by J. S. Bach, arr. J. Mathena.

Even faced with evidence to the contrary, some musicians still believe that Bach's indication on count one of bar 89 is enough to argue for a simple, up and down, approach to this passage. In his treatise on the sonatas and partitas, Richard Efrati said

If in a succession of chords the word “arpeggio” is written it means that the chords must be broken. This can be done in a number of ways...Bach has indicated in bars 89-120 of the Ciaccona the way in which he wanted this passage to be played: it is hard to understand why editors have gone over to triplets already at the start – they should begin on the third beat of bar 103, as the four-part chords occur there.⁸⁹

⁸⁹Efrati, 192-3.

The modern musicologist Frederick Neumann also shared Efrati's thoughts on arpeggios.

Another problem arises when a model given at the outset of a lengthy arpeggio passage ceases to fit later chords...In such cases the performer has to use his imagination unless he wishes to follow the modern editor's suggestions. Whenever we have no guidance from the composer, it will generally be advisable to aim at simple, not fancy solutions.⁹⁰

While these theories are acceptable, and for most players the end result, I believe a more straightforward realization should be reserved for shorter arpeggio passages and longer phrases, like bars 89-120, should contain variety and exciting additions. For shorter arpeggio phrases, one can cling to common arpeggiations. Regarding the arpeggio passage from the *Fuga* from Sonata I, the Baroque violinist Jaap Schöder said

He [Bach] obviously intended an arpeggiated execution but did not take time to specify it. Carl Flesch and other have suggested some fancy bow strokes. My conviction, based on the violin technique of Westhoff and other older contemporaries of Bach, is that arpeggios focus on the content of the chords, on their progression and not on the virtuoso quality of the right hand. A straightforward up-and-down movement on each chord is all that is needed.⁹¹

This concept can also be evidenced in his realization of mm. 201-8 of the *Ciaccona*. Many believe a realization, like the one in example 67, is the extent of the freedoms afforded to a performer.

⁹⁰Frederick Neumann and Jane Stevens, *Performance Practices of the Seventeenth and Eighteenth Centuries* (New York: Schirmer, 1993), 494.

⁹¹Schröder, *Bach's Solo Violin Works*, 67. In reference to mm. 35-41 of the *Fuga* from BWV 1001 but still applicable to the *Ciaccona*.



*Musical Example 67. Ciaccona from Partita II, BWV 1004, mm. 201-8 by J. S. Bach, realized by Jaap Schröder, *Bach's Solo Violin Works: A Performer's Guide* (London: Yale University Press, 2007), 142.*

Still even Schröder's rendition is still more adventuresome than most violinists and most marimbists, who commonly play a quasi *um-pah* pattern for this section.⁹² This is not necessarily a bad idea because for variety's sake and possibly mood or affect, arpeggio passages do not always need to be performed as ascending and descending figures. For evidence of this notion as an accepted performance practice, one can cite Johann Mattheson, who wrote of instances where the performer may play dyads alternating with dyads, triads alternating with triads, dyads alternating with single notes, triads alternating with single notes, or any number of combinations possible with three or four notes.

Now such a three-part phrase...can be spun out in five different ways, and can be performed with the broken chords, as

1. Where one combines the two lowest voices into one, and takes the upper as it stands.
2. Where the two upper voices are combined into one; though the lower remains just as it is.
3. Where the middle voice is not altered; but the two others join together and make only one.
4. When two voices alternate in this, the third being included in them.

⁹²For examples of a realization of bars 201-7, see Carl Flesch, ed., *Sonaten und Partiten* (New York: C. F. Peters, 1930); Eduard Herrmann, ed., *Bach: Sonatas and Partitas for the Violin* (New York: Schirmer, 1986); Ivan Galamian, ed., *6 Sonatas and Partitas, S. 1001 – S. 1006 for Solo Violin* (New York: International Music Company, 1971); and Joseph Joachim and Andreas Moser, eds., *Bach: Six Sonatas and Partitas for the Violin* (New York: Kalmus, 1942).

5. When all three are perceived in a single voice, as when the main idea consists of the broken chord.

This fifth and last breaking is actually called the **harp-type**, in Italian: *Arpeggio*, and is used a great deal.⁹³

With a four-voice example we find six ways to vary the broken chord in the voices. The breaks however in and for themselves are and remain innumerable, indeed, infinite. Here are the six types of four-part phrase!

1. One combines the two upper voices into one, so that the two lower voices remain unchanged.
2. Three are combined into two, so that the lowest voice alone remains simply as it was.
3. Combining all four voices into three broken ones.
4. The three highest into one, the lowest remains as it was.
5. All four voices into two.
6. All four into one.⁹⁴

Some of the comprehension may be lost in this translation of Mattheson but he is simply saying arpeggios and broken chords need not only be one note after the other, up or down, but mixtures of double-stops and single notes can be employed as well.

Because many performers from the nineteenth century to the present play the second arpeggio section of the *Ciaccona* as a series of dyads, the next example is a realization I concocted based on most of the violin editions surveyed for this study. Following that is another realization, akin to Shröder's version, which is a rapid burst of flourishes that concludes the triumphant D major portion of the *Ciaccona*. Because of the inability to correctly interpret Bach's manuscript, there has been some debate as to whether to begin this arpeggio passage on count one or two. Because the abbreviation *Arp.* is written below bar 201 and is in between count one and two, some start the

⁹³Mattheson, 673-4.

⁹⁴Ibid., 675.

arpeggiations on one and some start on two. Schröder begins on count two, but because of Bach's indication for the first arpeggio passage, I prefer starting on count one.



Musical Example 68. Ciaccona from Partita II, BWV 1004, mm. 194-208 J. S. Bach (autograph manuscript), 15.

Musical Example 69. Ciaccona from Sonata I, BWV 1004, mm. 194-208 by J. S. Bach, arr. J. Mathena.

194 195 196 197 *tr* 198 199 200 201

ff *molto rit.*

201 *con moto* arpeggio

p

202

203

f *p*

204

mf

205

f *mp*

206

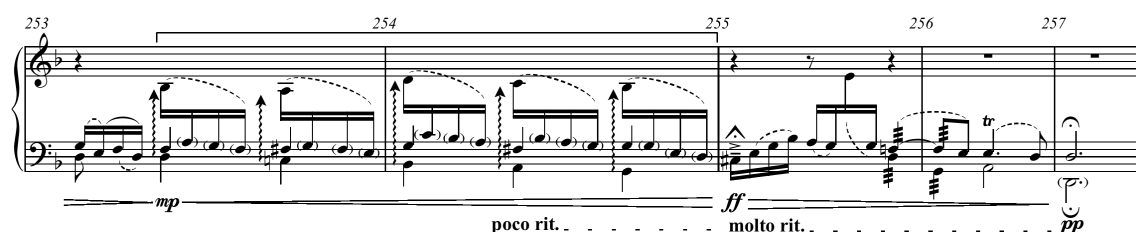
mf

207 208

f *poco rit.* *ff*

Musical Example 70. Ciaccona from Sonata I, BWV 1004, mm. 194-208 by J. S. Bach, arr. J. Mathena.

There is no literature stating that one cannot add notes but there are some writers who think of the extended arpeggio passage as a chance for free improvisation (within the stylistic realm of course). In the thorough-bass treatises of the Baroque, writers talk of adding acciaccaturas, scalar passages, and other various ornaments where appropriate when one is playing the chordal instrument in a basso continuo group. In bars 253-4 of the “Ciaccona,” I add scalar passages after the chord is struck. There is no precedence for improvisation in these bars, but I believe the performer can add to this and other sections so long as it is always in good taste and the notated tones are still clear to the listener. The added notes are in parentheses.



Musical Example 71. Ciaccona from Partita II, BWV 1004, mm. 253-7 by J. S. Bach, arr. J. Mathena.

Since the *Ciaccona* is very powerful and full of remarkable opportunities for musical expression and individual embellishment, I believe the arpeggio passages are where one is allowed to improvise and create something beyond the written notes. I hope these ideas presented will inspire marimbists, and other musicians as well, to strive for creativity and spontaneity regarding this mammoth work.

CHAPTER V

CONCLUSION

If one played only the notes and rhythms supplied by Bach and did nothing musical regarding phrasing and articulation, added no ornaments or embellishments, the music would still be magnificent. But if one adds phrasing, ornaments, dynamics, and a host of other enhancements, then the Baroque ideal for the sonatas and partitas would be realized and the music would become personalized. In his day, performers were expected to individualize a work during performance with additions that maybe even the composer had never envisioned. This is what I hope one takes away from this study.

In accordance with the idiosyncrasies of the instrument, marimbists have choice when breaking chords or realizing arpeggios. Every option should be considered before one way is settled upon. If one understands one's instrument and is technically proficient, then musical choices can be made idiomatically and historically, not arbitrarily or based on erroneous information. Once a performer communicates *through* his instrument then one can take performance practices of any era, transfer them, execute them stylistically appropriately, and communicate emotion through them. Then one may reach a level where the embellishments are not planned but rather played spontaneously.

Another aspect one should take away from this document is the importance of playing transcriptions idiomatically. One should strive to not make musical choices based on instruments idiosyncrasies, including the original instrument for which a work was written. The violin has its own set of idiosyncrasies and only some of them coincide with those of the marimba. Bach would probably not have tried to play the harpsichord

like a string player, even when playing his own music. The joy of transcription is taking the notes and rhythms intended for a specific instrument and realizing it on a completely different instrument. Results that maybe even the composer could not have imagined can

Selected transcriptions with my performance suggestions can be found in Appendix B. I preface them by saying this is only *one* way of performing them. I do not play these wonderful works the same way every time. There are many factors that dictate performance and I would like to encourage performers to consider their own set of circumstances and not take my suggestions blindly. There is a notation guide in Appendix A. Regarding these transcriptions, one must understand that notation, however specific, is still incapable of conveying all the information a performer needs to produce a meaningful, expressive, and individual performance. Notated music is simply a guide and the performer must add what can never be captured on the page.

APPENDIX A

GUIDE TO NOTATION SYMBOLS

1. Mallet indications from left to right

1, 2, 3, 4

2. Percussion tremolo (alternating right and left hand or mallets, i.e. 1/2 or 3/4 or 1/2/3/4)



3. Bach's original bowing indication



4. Editorial phrase mark



5. Added note or, if indicated, a note that is slightly emphasized

()

6. Altered phrase



7. Accent



8. Half-accent



9. Broken chord ascending (sticking is 1234 or 1324)



10. Broken chord descending (sticking is 4321 or 4231)



11. Broken chord - in to out (notated as either 1243, 4312, 1423, or 4132)



12. Broken chord - out to in (notated as either 2134, 3421, 2314, or 3241)



13. Broken chord beginning on inner note then ascending with initial inner note included (sticking is 31234 or 21234)



14. Notated retardation



15. Notated appoggiatura



APPENDIX B

MARIMBA TRANSCRIPTIONS FROM J. S. BACH'S SONATAS AND PARTITAS
FOR SOLO VIOLIN, BWV 1001-6

Adagio from Sonata I, BWV 1001

Adagio

J. S. Bach, arr. J. Mathena

2

3

4

5

6

7

8

9

10

11

1, 2, 4, 3

f *p* *mf* *f* *mp* *f* *mp* *mp* *pp* *ff*

Like an echo *mp* *ppp*

12 *mf* *f* *tr* 13 *ff* *pp* *mf*

14 *mp* *p* *mp* *tr* 15 *mf* *p* *mp* *f*

16 *mf* *mp* *mf* *tr* 17 *p* *mp* *mf*

18 *f* *pp* 19 *pp* *mf*

20 *p* 21 *ff* 22 *tr* *rit.* *niente*

Fuga from Sonata I, BWV 1001

J. S. Bach, arr. J. Mathena

Allegro

The musical score is written for piano and consists of 21 measures. The key signature is G major (one sharp) and the time signature is 3/4. The tempo is marked 'Allegro'. The score is arranged by J. Mathena from the original by J. S. Bach.

The score is divided into five systems, each containing four measures (except for the last system which has five measures). The measures are numbered 1 through 21.

Dynamic markings include *mp* (mezzo-piano), *p* (piano), *mf* (mezzo-forte), *f* (forte), and *fp* (fortissimo-piano). The tempo marking *poco rit.* (poco ritardando) appears below measure 14.

The score features various musical notations, including slurs, ties, and phrasing slurs, indicating the structure and flow of the fugue.

22 23 24 *tr*

sub.f *sub.p*

25 26 27 28 29

mf *mp* *f*

30 31 32 33 34

p *mf*

35 36

p

37 Start bringing out right hand

mf

38 For bars 38 and 39 dynamics pertain to only the right hand

p

39

sub.f

40 For bars 40 and 41 dynamics pertain to only mallets 3 and 4

60 61 62 63

64 65 66

67 68 69

70 71

72 73

74 75 76

77 78 79

mp *mf* *mp* *mf* *p* *f* *p* *f* *p* *f* *p* *mf* *f*

This musical score is for a piano piece, spanning measures 60 to 79. It is written for a grand piano with a treble and bass staff. The key signature has two flats (B-flat and E-flat), and the time signature is 4/4. The score is divided into systems of three measures each. Measure numbers 60 through 79 are printed above the first staff of each system. Dynamic markings are placed below the staves: *mp* (mezzo-piano) at measures 61, 64, and 66; *mf* (mezzo-forte) at measures 62, 63, 65, 69, 71, 73, 75, and 79; *p* (piano) at measures 67, 68, 70, 72, 74, 76, and 78; and *f* (forte) at measures 69, 71, 73, 75, and 79. The music features a variety of rhythmic patterns, including eighth and sixteenth notes, often beamed together. There are also rests and some triplet markings. The piece concludes with a final *f* dynamic marking at measure 79.

80 81 82 83

p *f*

84 85 86

ff *poco rit.* *tr*

87 a tempo 88

fp *mf* *fp* *mf*

89 90

fp *fp* *fp* *fp* *poco rit.*

91 slow 92

ff accel. *rit.*

93 slowly 94

f *mp* *ff* *tr*

rit. Decrescendo as the final chord descends

Siciliana from Sonata I, BWV 1001

J. S. Bach, arr. J. Mathena

Siciliana

The musical score for 'Siciliana' from Sonata I, BWV 1001, is presented in 12/8 time. The score is divided into five systems, each containing two staves (treble and bass clef). The key signature is one flat (B-flat). The score includes various dynamic markings and articulations:

- Measure 1:** Treble staff has a whole note G4. Bass staff has a half note F3, a quarter note G3, and a quarter note A3. Dynamics: *p* (piano) and *mf* (mezzo-forte).
- Measure 2:** Treble staff has a half note G4, a quarter note A4, and a quarter note B4. Bass staff has a half note F3, a quarter note G3, and a quarter note A3. Dynamics: *p* (piano).
- Measure 3:** Treble staff has a half note G4, a quarter note A4, and a quarter note B4. Bass staff has a half note F3, a quarter note G3, and a quarter note A3. Dynamics: *mp* (mezzo-piano).
- Measure 4:** Treble staff has a half note G4, a quarter note A4, and a quarter note B4. Bass staff has a half note F3, a quarter note G3, and a quarter note A3. Dynamics: *fp* (fortissimo).
- Measure 5:** Treble staff has a half note G4, a quarter note A4, and a quarter note B4. Bass staff has a half note F3, a quarter note G3, and a quarter note A3. Dynamics: *sub. mf* (subito mezzo-forte).
- Measure 6:** Treble staff has a half note G4, a quarter note A4, and a quarter note B4. Bass staff has a half note F3, a quarter note G3, and a quarter note A3. Dynamics: *p* (piano).
- Measure 7:** Treble staff has a half note G4, a quarter note A4, and a quarter note B4. Bass staff has a half note F3, a quarter note G3, and a quarter note A3. Dynamics: *f* (forte).
- Measure 8:** Treble staff has a half note G4, a quarter note A4, and a quarter note B4. Bass staff has a half note F3, a quarter note G3, and a quarter note A3. Dynamics: *fp* (fortissimo).
- Measure 9:** Treble staff has a half note G4, a quarter note A4, and a quarter note B4. Bass staff has a half note F3, a quarter note G3, and a quarter note A3. Dynamics: *sub. mp* (subito mezzo-piano).
- Measure 10:** Treble staff has a half note G4, a quarter note A4, and a quarter note B4. Bass staff has a half note F3, a quarter note G3, and a quarter note A3. Dynamics: *sub. mf* (subito mezzo-forte) and *sub. f* (subito forte).

11 12

sub. *mf*

sub. *mp* *f* *mp*

13 14

mf *mp* *f*

15 16

mf *p* *mf*

17 18

ff poco rit. . . .

19 a tempo 20

mp *mf* *p* *pp*

a tempo molto rit. . . .

Sarabande from Partita I, BWV 1002

J. S. Bach, arr. J. Mathena

NOTE: The broken chords on the second beat should be broken slower than those on beats one and three.

Sarabande

1. *mp* *f* *p* *f* *mp* *mf* *f* *mp*

2. *f* *sub. f* *ff* *mf* *f* *mf*

3. *p* *mp* *f* *mf* *mp*

4. *f* *mp* *p* *f*

5. *f* *mp* *p* *f*

6. *f* *mp* *p* *f*

7. *f* *mp* *p* *f*

8. *f* *mp* *p* *f*

9. *f* *mp* *p* *f*

10. *f* *mp* *p* *f*

11. *f* *mp* *p* *f*

12. *f* *mp* *p* *f*

13. *f* *mp* *p* *f*

14. *f* *mp* *p* *f*

15. *f* *mp* *p* *f*

16. *f* *mp* *p* *f*

17. *f* *mp* *p* *f*

18. *f* *mp* *p* *f*

19. *f* *mp* *p* *f*

20. *f* *mp* *p* *f*

21. *f* *mp* *p* *f*

22. *f* *mp* *p* *f*

23. *f* *mp* *p* *f*

24. *f* *mp* *p* *f*

25. *f* *mp* *p* *f*

26. *f* *mp* *p* *f*

27. *f* *mp* *p* *f*

28. *f* *mp* *p* *f*

29. *f* *mp* *p* *f*

30. *f* *mp* *p* *f*

31. *f* *mp* *p* *f*

32. *f* *mp* *p* *f*

33. *f* *mp* *p* *f*

34. *f* *mp* *p* *f*

35. *f* *mp* *p* *f*

36. *f* *mp* *p* *f*

37. *f* *mp* *p* *f*

38. *f* *mp* *p* *f*

39. *f* *mp* *p* *f*

40. *f* *mp* *p* *f*

41. *f* *mp* *p* *f*

42. *f* *mp* *p* *f*

43. *f* *mp* *p* *f*

44. *f* *mp* *p* *f*

45. *f* *mp* *p* *f*

46. *f* *mp* *p* *f*

47. *f* *mp* *p* *f*

48. *f* *mp* *p* *f*

49. *f* *mp* *p* *f*

50. *f* *mp* *p* *f*

51. *f* *mp* *p* *f*

52. *f* *mp* *p* *f*

53. *f* *mp* *p* *f*

54. *f* *mp* *p* *f*

55. *f* *mp* *p* *f*

56. *f* *mp* *p* *f*

57. *f* *mp* *p* *f*

58. *f* *mp* *p* *f*

59. *f* *mp* *p* *f*

60. *f* *mp* *p* *f*

61. *f* *mp* *p* *f*

62. *f* *mp* *p* *f*

63. *f* *mp* *p* *f*

64. *f* *mp* *p* *f*

65. *f* *mp* *p* *f*

66. *f* *mp* *p* *f*

67. *f* *mp* *p* *f*

68. *f* *mp* *p* *f*

69. *f* *mp* *p* *f*

70. *f* *mp* *p* *f*

71. *f* *mp* *p* *f*

72. *f* *mp* *p* *f*

73. *f* *mp* *p* *f*

74. *f* *mp* *p* *f*

75. *f* *mp* *p* *f*

76. *f* *mp* *p* *f*

77. *f* *mp* *p* *f*

78. *f* *mp* *p* *f*

79. *f* *mp* *p* *f*

80. *f* *mp* *p* *f*

81. *f* *mp* *p* *f*

82. *f* *mp* *p* *f*

83. *f* *mp* *p* *f*

84. *f* *mp* *p* *f*

85. *f* *mp* *p* *f*

86. *f* *mp* *p* *f*

87. *f* *mp* *p* *f*

88. *f* *mp* *p* *f*

89. *f* *mp* *p* *f*

90. *f* *mp* *p* *f*

91. *f* *mp* *p* *f*

92. *f* *mp* *p* *f*

93. *f* *mp* *p* *f*

94. *f* *mp* *p* *f*

95. *f* *mp* *p* *f*

96. *f* *mp* *p* *f*

97. *f* *mp* *p* *f*

98. *f* *mp* *p* *f*

99. *f* *mp* *p* *f*

100. *f* *mp* *p* *f*

101. *f* *mp* *p* *f*

102. *f* *mp* *p* *f*

103. *f* *mp* *p* *f*

104. *f* *mp* *p* *f*

105. *f* *mp* *p* *f*

106. *f* *mp* *p* *f*

107. *f* *mp* *p* *f*

108. *f* *mp* *p* *f*

109. *f* *mp* *p* *f*

110. *f* *mp* *p* *f*

111. *f* *mp* *p* *f*

112. *f* *mp* *p* *f*

113. *f* *mp* *p* *f*

114. *f* *mp* *p* *f*

115. *f* *mp* *p* *f*

116. *f* *mp* *p* *f*

117. *f* *mp* *p* *f*

118. *f* *mp* *p* *f*

119. *f* *mp* *p* *f*

120. *f* *mp* *p* *f*

121. *f* *mp* *p* *f*

122. *f* *mp* *p* *f*

123. *f* *mp* *p* *f*

124. *f* *mp* *p* *f*

125. *f* *mp* *p* *f*

126. *f* *mp* *p* *f*

127. *f* *mp* *p* *f*

128. *f* *mp* *p* *f*

129. *f* *mp* *p* *f*

130. *f* *mp* *p* *f*

131. *f* *mp* *p* *f*

132. *f* *mp* *p* *f*

133. *f* *mp* *p* *f*

134. *f* *mp* *p* *f*

135. *f* *mp* *p* *f*

136. *f* *mp* *p* *f*

137. *f* *mp* *p* *f*

138. *f* *mp* *p* *f*

139. *f* *mp* *p* *f*

140. *f* *mp* *p* *f*

141. *f* *mp* *p* *f*

142. *f* *mp* *p* *f*

143. *f* *mp* *p* *f*

144. *f* *mp* *p* *f*

145. *f* *mp* *p* *f*

146. *f* *mp* *p* *f*

147. *f* *mp* *p* *f*

148. *f* *mp* *p* *f*

149. *f* *mp* *p* *f*

150. *f* *mp* *p* *f*

151. *f* *mp* *p* *f*

152. *f* *mp* *p* *f*

153. *f* *mp* *p* *f*

154. *f* *mp* *p* *f*

155. *f* *mp* *p* *f*

156. *f* *mp* *p* *f*

157. *f* *mp* *p* *f*

158. *f* *mp* *p* *f*

159. *f* *mp* *p* *f*

160. *f* *mp* *p* *f*

161. *f* *mp* *p* *f*

162. *f* *mp* *p* *f*

163. *f* *mp* *p* *f*

164. *f* *mp* *p* *f*

165. *f* *mp* *p* *f*

166. *f* *mp* *p* *f*

167. *f* *mp* *p* *f*

168. *f* *mp* *p* *f*

169. *f* *mp* *p* *f*

170. *f* *mp* *p* *f*

171. *f* *mp* *p* *f*

172. *f* *mp* *p* *f*

173. *f* *mp* *p* *f*

174. *f* *mp* *p* *f*

175. *f* *mp* *p* *f*

176. *f* *mp* *p* *f*

177. *f* *mp* *p* *f*

178. *f* *mp* *p* *f*

179. *f* *mp* *p* *f*

180. *f* *mp* *p* *f*

181. *f* *mp* *p* *f*

182. *f* *mp* *p* *f*

183. *f* *mp* *p* *f*

184. *f* *mp* *p* *f*

185. *f* *mp* *p* *f*

186. *f* *mp* *p* *f*

187. *f* *mp* *p* *f*

188. *f* *mp* *p* *f*

189. *f* *mp* *p* *f*

190. *f* *mp* *p* *f*

191. *f* *mp* *p* *f*

192. *f* *mp* *p* *f*

193. *f* *mp* *p* *f*

194. *f* *mp* *p* *f*

195. *f* *mp* *p* *f*

196. *f* *mp* *p* *f*

197. *f* *mp* *p* *f*

198. *f* *mp* *p* *f*

199. *f* *mp* *p* *f*

200. *f* *mp* *p* *f*

201. *f* *mp* *p* *f*

202. *f* *mp* *p* *f*

203. *f* *mp* *p* *f*

204. *f* *mp* *p* *f*

205. *f* *mp* *p* *f*

206. *f* *mp* *p* *f*

207. *f* *mp* *p* *f*

208. *f* *mp* *p* *f*

209. *f* *mp* *p* *f*

210. *f* *mp* *p* *f*

211. *f* *mp* *p* *f*

212. *f* *mp* *p* *f*

213. *f* *mp* *p* *f*

214. *f* *mp* *p* *f*

215. *f* *mp* *p* *f*

216. *f* *mp* *p* *f*

217. *f* *mp* *p* *f*

218. *f* *mp* *p* *f*

219. *f* *mp* *p* *f*

220. *f* *mp* *p* *f*

221. *f* *mp* *p* *f*

222. *f* *mp* *p* *f*

223. *f* *mp* *p* *f*

224. *f* *mp* *p* *f*

225. *f* *mp* *p* *f*

226. *f* *mp* *p* *f*

227. *f* *mp* *p* *f*

228. *f* *mp* *p* *f*

229. *f* *mp* *p* *f*

230. *f* *mp* *p* *f*

231. *f* *mp* *p* *f*

232. *f* *mp* *p* *f*

233. *f* *mp* *p* *f*

234. *f* *mp* *p* *f*

235. *f* *mp* *p* *f*

236. *f* *mp* *p* *f*

237. *f* *mp* *p* *f*

238. *f* *mp* *p* *f*

239. *f* *mp* *p* *f*

240. *f* *mp* *p* *f*

241. *f* *mp* *p* *f*

242. *f* *mp* *p* *f*

243. *f* *mp* *p* *f*

244. *f* *mp* *p* *f*

245. *f* *mp* *p* *f*

246. *f* *mp* *p* *f*

247. *f* *mp* *p* *f*

248. *f* *mp* *p* *f*

249. *f* *mp* *p* *f*

250. *f* *mp* *p* *f*

251. *f* *mp* *p* *f*

252. *f* *mp* *p* *f*

253. *f* *mp* *p* *f*

254. *f* *mp* *p* *f*

255. *f* *mp* *p* *f*

256. *f* *mp* *p* *f*

257. *f* *mp* *p* *f*

258. *f* *mp* *p* *f*

259. *f* *mp* *p* *f*

260. *f* *mp* *p* *f*

261. *f* *mp* *p* *f*

262. *f* *mp* *p* *f*

263. *f* *mp* *p* *f*

264. *f* *mp* *p* *f*

265. *f* *mp* *p* *f*

266. *f* *mp* *p* *f*

267. *f* *mp* *p* *f*

268. *f* *mp* *p* *f*

269. *f* *mp* *p* *f*

270. *f* *mp* *p* *f*

271. *f* *mp* *p* *f*

272. *f* *mp* *p* *f*

273. *f* *mp* *p* *f*

274. *f* *mp* *p* *f*

275. *f* *mp* *p* *f*

276. *f* *mp* *p* *f*

277. *f* *mp* *p* *f*

278. *f* *mp* *p* *f*

279. *f* *mp* *p* *f*

280. *f* *mp* *p* *f*

281. *f* *mp* *p* *f*

282. *f* *mp* *p* *f*

283. *f* *mp* *p* *f*

284. *f* *mp* *p* *f*

285. *f* *mp* *p* *f*

286. *f* *mp* *p* *f*

287. *f* *mp* *p* *f*

288. *f* *mp* *p* *f*

289. *f* *mp* *p* *f*

290. *f* *mp* *p* *f*

291. *f* *mp* *p* *f*

292. *f* *mp* *p* *f*

293. *f* *mp* *p* *f*

294. *f* *mp* *p* *f*

295. *f* *mp* *p* *f*

296. *f* *mp* *p* *f*

297. *f* *mp* *p* *f*

298. *f* *mp* *p* *f*

299. *f* *mp* *p* *f*

300. *f* *mp* *p* *f*

301. *f* *mp* *p* *f*

302. *f* *mp* *p* *f*

303. *f* *mp* *p* *f*

304. *f* *mp* *p* *f*

305. *f* *mp* *p* *f*

306. *f* *mp* *p* *f*

307. *f* *mp* *p* *f*

308. *f* *mp* *p* *f*

309. *f* *mp* *p* *f*

310. *f* *mp* *p* *f*

311. *f* *mp* *p* *f*

312. *f* *mp* *p* *f*

313. *f* *mp* *p* *f*

314. *f* *mp* *p* *f*

315. *f* *mp* *p* *f*

316. *f* *mp* *p* *f*

317. *f* *mp* *p* *f*

318. *f* *mp* *p* *f*

319. *f* *mp* *p* *f*

320. *f* *mp* *p* *f*

321. *f* *mp* *p* *f*

322. *f* *mp* *p* *f*

323. *f* *mp* *p* *f*

324. *f* *mp* *p* *f*

325. *f* *mp* *p* *f*

326. *f* *mp* *p* *f*

327. *f* *mp* *p* *f*

328. *f* *mp* *p* *f*

329. *f* *mp* *p* *f*

330. *f* *mp* *p* *f*

331. *f* *mp* *p* *f*

332. *f* *mp* *p* *f*

333. *f* *mp* *p* *f*

334. *f* *mp* *p* *f*

335. *f* *mp* *p* *f*

336. *f* *mp* *p* *f*

337. *f* *mp* *p* *f*

338. *f* *mp* *p* *f*

339. *f* *mp* *p* *f*

340. *f* *mp* *p* *f*

341. *f* *mp* *p* *f*

342. *f* *mp* *p* *f*

343. *f* *mp* *p* *f*

344. *f* *mp* *p* *f*

345. *f* *mp* *p* *f*

346. *f* *mp* *p* *f*

347. *f* *mp* *p* *f*

348. *f* *mp* *p* *f*

349. *f* *mp* *p* *f*

350. *f* *mp* *p* *f*

351. *f* *mp* *p* *f*

352. *f* *mp* *p* *f*

353. *f* *mp* *p* *f*

354. *f* *mp* *p* *f*

355. *f* *mp* *p* *f*

356. *f* *mp* *p* *f*

357. *f* *mp* *p* *f*

358. *f</*

Tempo di Borea from Partita I, BWV 1002

J. S. Bach, arr. J. Mathena

Tempo di Borea

The musical score for "Tempo di Borea" from Partita I, BWV 1002 by J.S. Bach, arranged by J. Mathena, is presented in G major and 3/4 time. The piece consists of 30 measures, divided into six systems of five measures each. The notation includes a treble and bass staff with various musical notations such as dynamics, articulation, and ornaments.

Measure 1: Treble staff begins with a forte (*f*) dynamic. Bass staff begins with a piano (*p*) dynamic. Measure 1 includes a first ending bracket.

Measure 2: Treble staff includes a second ending bracket. Bass staff includes a piano (*p*) dynamic.

Measure 3: Treble staff includes a trill (*tr*) ornament. Bass staff includes a piano (*p*) dynamic.

Measure 4: Treble staff includes a piano (*p*) dynamic. Bass staff includes a piano (*p*) dynamic.

Measure 5: Treble staff includes a piano (*p*) dynamic. Bass staff includes a piano (*p*) dynamic.

Measure 6: Treble staff includes a mezzo-forte (*mf*) dynamic. Bass staff includes a mezzo-forte (*mf*) dynamic.

Measure 7: Treble staff includes a mezzo-forte (*mf*) dynamic. Bass staff includes a mezzo-forte (*mf*) dynamic.

Measure 8: Treble staff includes a mezzo-forte (*mf*) dynamic. Bass staff includes a mezzo-forte (*mf*) dynamic.

Measure 9: Treble staff includes a mezzo-forte (*mf*) dynamic. Bass staff includes a mezzo-forte (*mf*) dynamic.

Measure 10: Treble staff includes a piano (*p*) dynamic. Bass staff includes a piano (*p*) dynamic.

Measure 11: Treble staff includes a mezzo-forte (*mf*) dynamic. Bass staff includes a mezzo-forte (*mf*) dynamic.

Measure 12: Treble staff includes a mezzo-forte (*mf*) dynamic. Bass staff includes a mezzo-forte (*mf*) dynamic.

Measure 13: Treble staff includes a mezzo-forte (*mf*) dynamic. Bass staff includes a mezzo-forte (*mf*) dynamic.

Measure 14: Treble staff includes a forte (*f*) dynamic. Bass staff includes a forte (*f*) dynamic.

Measure 15: Treble staff includes a piano (*p*) dynamic. Bass staff includes a piano (*p*) dynamic.

Measure 16: Treble staff includes a piano (*p*) dynamic. Bass staff includes a piano (*p*) dynamic.

Measure 17: Treble staff includes a forte (*f*) dynamic. Bass staff includes a forte (*f*) dynamic.

Measure 18: Treble staff includes a piano (*p*) dynamic. Bass staff includes a piano (*p*) dynamic.

Measure 19: Treble staff includes a piano (*p*) dynamic. Bass staff includes a piano (*p*) dynamic.

Measure 20: Treble staff includes a forte (*f*) dynamic. Bass staff includes a forte (*f*) dynamic.

Measure 21: Treble staff includes a forte (*f*) dynamic. Bass staff includes a forte (*f*) dynamic.

Measure 22: Treble staff includes a forte (*f*) dynamic. Bass staff includes a forte (*f*) dynamic.

Measure 23: Treble staff includes a forte (*f*) dynamic. Bass staff includes a forte (*f*) dynamic.

Measure 24: Treble staff includes a forte (*f*) dynamic. Bass staff includes a forte (*f*) dynamic.

Measure 25: Treble staff includes a mezzo-forte (*mf*) dynamic. Bass staff includes a mezzo-forte (*mf*) dynamic.

Measure 26: Treble staff includes a mezzo-forte (*mf*) dynamic. Bass staff includes a mezzo-forte (*mf*) dynamic.

Measure 27: Treble staff includes a trill (*tr*) ornament. Bass staff includes a mezzo-forte (*mf*) dynamic.

Measure 28: Treble staff includes a mezzo-forte (*mf*) dynamic. Bass staff includes a mezzo-forte (*mf*) dynamic.

Measure 29: Treble staff includes a mezzo-forte (*mf*) dynamic. Bass staff includes a mezzo-forte (*mf*) dynamic.

Measure 30: Treble staff includes a mezzo-forte (*mf*) dynamic. Bass staff includes a mezzo-forte (*mf*) dynamic.

31 32 33 34 35

36 37 38 39 40 41

42 43 44 45 46 47

48 49 50 51 52 53

54 55 56 57 58 59 60

61 62 63 64 65 A tempo 66 67 68

p *mf* *fp* *f* *mf* *p* *f* *mp* *f* *mp* *f* *sub. f* *p* *f* *sub. f* *f* *mf* *ff* *p* *f* *mp*

rit.

Andante from Sonata II, BWV 1003

J. S. Bach, arr. J. Mathena

Andante NOTE: Always keep the eighth note accompaniment softer than the right hand

The musical score is written for piano in 3/4 time. It consists of 19 measures, divided into five systems of four measures each. The right hand plays a melodic line, while the left hand provides a steady eighth-note accompaniment. The key signature has one sharp (F#). Dynamics are indicated by slanted lines with labels: *pp*, *p*, *mp*, *mf*, *f*, and *tr* (trill). Measure numbers 1 through 19 are placed above the staves. The score includes various musical notations such as slurs, ties, and a trill in measure 10.

Musical score for piano, measures 20-27. The score is written for piano (piano) and includes dynamic markings and articulation.

Measures 20-23:

- Measure 20: Treble clef, key signature of one sharp (F#), time signature of 4/4. Bass clef, key signature of one sharp (F#), time signature of 4/4. Dynamic: *mp*.
- Measure 21: Treble clef, key signature of one sharp (F#), time signature of 4/4. Bass clef, key signature of one sharp (F#), time signature of 4/4. Dynamic: *p*.
- Measure 22: Treble clef, key signature of one sharp (F#), time signature of 4/4. Bass clef, key signature of one sharp (F#), time signature of 4/4. Dynamic: *mp*.
- Measure 23: Treble clef, key signature of one sharp (F#), time signature of 4/4. Bass clef, key signature of one sharp (F#), time signature of 4/4. Dynamic: *mf*.

Measures 24-27:

- Measure 24: Treble clef, key signature of one sharp (F#), time signature of 4/4. Bass clef, key signature of one sharp (F#), time signature of 4/4. Dynamic: *mf*.
- Measure 25: Treble clef, key signature of one sharp (F#), time signature of 4/4. Bass clef, key signature of one sharp (F#), time signature of 4/4. Dynamic: *f*.
- Measure 26: Treble clef, key signature of one sharp (F#), time signature of 4/4. Bass clef, key signature of one sharp (F#), time signature of 4/4. Dynamic: *mp*. Includes a trill (tr) and a triplet (3).
- Measure 27: Treble clef, key signature of one sharp (F#), time signature of 4/4. Bass clef, key signature of one sharp (F#), time signature of 4/4. Dynamic: *f*.

Measures 26-27 are repeated, ending with a double bar line and repeat sign. The final measure (27) ends with a dynamic marking of *p*.

Sarabanda from Partita II, BWV 1004

J. S. Bach, arr. J. Mathena

Sarabanda

The musical score for the Sarabanda from Partita II, BWV 1004, is presented in 3/4 time. The piece consists of 19 measures, divided into five systems. The dynamics and performance markings are as follows:

- Measure 1:** *mp*
- Measure 2:** *mf*
- Measure 3:** *p*
- Measure 4:** *f*
- Measure 5:** *mf*
- Measure 6:** *f*
- Measure 7:** *mp*
- Measure 8:** *p*
- Measure 9:** *f*, *p*, *sub.f* (1, 2, 4, 3)
- Measure 10:** *mf*
- Measure 11:** *mp*
- Measure 12:** *f*
- Measure 13:** *f*
- Measure 14:** *p*
- Measure 15:** *f*
- Measure 16:** *mp*
- Measure 17:** *p*, *mf*
- Measure 18:** *p*
- Measure 19:** *mf*

The score includes various musical notations such as trills (tr), slurs, and dynamic markings (mp, mf, p, f, sub.f) to guide the performer.

Note for m. 21: These two chords decrescendo as they ascend.
Also break the second chord slower than the first.
The bass is ON the beat.

20 21 22 23

f *fp* *mf* *sub. f*

1. 24 25 2. 25 26

mp *f* *mp* *mp*

27 28 29

fp *ff* *p* *pp*

rit.

Ciaccona from Partita II, BWV 1004

For mm. 1-16, the chords on the second beat should be slightly louder and broken slower than the chords on count one or three.

J. S. Bach, arr. J. Mathena

Ciaccona

The musical score is presented in a single system with 28 measures. The notation includes treble and bass staves with various musical symbols such as notes, rests, slurs, and dynamic markings. The key signature has one flat (B-flat).

Measure numbers 2 through 8 are placed above the first staff. Measure numbers 9 through 12 are placed above the second staff. Measure numbers 13 through 16 are placed above the third staff. Measure numbers 17 through 20 are placed above the fourth staff. Measure numbers 21 through 24 are placed above the fifth staff. Measure numbers 25 through 28 are placed above the sixth staff.

Dynamics include *mp*, *mf*, *p*, *f*, and *pp*. A trill is marked with 'tr' in measure 16. The tempo is marked 'a tempo' in measure 25 and 'poco rit.' in measure 28.

29 30 31 32

p *mf* *f* poco rit. .

33 *a tempo* 34 35 36

mp

37 38 39 40

mf *f*

p *p*

41 42 43 44

p *fp* *f* poco rit.

45 *a tempo* 46 47 48

fp *f* *mp* *ff* poco rit.

49 *a tempo* 50 51 52

mp

53 54 55 56

mp *f* *mp* *f* *mp* *f* *mp*

Detailed description: This page contains a musical score for piano, measures 29 through 56. The score is written in a single system with two staves (treble and bass clef). The key signature has two flats (B-flat and E-flat). The tempo markings are *a tempo* at measures 33 and 49. The dynamics are marked as *p* (piano), *mf* (mezzo-forte), *f* (forte), *mp* (mezzo-piano), *fp* (forzando), and *ff* (fortissimo). The score includes various musical notations such as slurs, ties, and phrasing slurs. The piece concludes with a *poco rit.* (poco ritardando) instruction at measure 44 and another at measure 48.

57 58 59 60

61 62 63 64

65 66 67 68

69 70 71

72 73 74

75 76

77 78 79 80

f

mp *f* *mp* *f* *mp* *f* *f*

mp *f* *mp* *f* *mp* *f*

mp *f* *fp* *f* *fp* *f*

fp

rit.

ff *molto rit.*

Detailed description: This page contains a musical score for piano, measures 57 through 80. The score is written in a single system with two staves (treble and bass clef). The key signature has two flats (B-flat and E-flat). The time signature is not explicitly shown but appears to be 4/4. The score is divided into measures, with measure numbers 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, and 80. The score includes various musical notations such as notes, rests, slurs, and dynamic markings. The dynamics range from *f* (forte) to *ff* (fortissimo). There are also markings for *mp* (mezzo-piano), *fp* (fortissimo piano), and *rit.* (ritardando). The score ends with a *molto rit.* (molto ritardando) marking.

81 82 83 84

p *fp* *fp* *f* poco rit. .

85 86

mp

87 88

89 arpeggio 90

p

91 92

p

93 94

mf

95 96

Detailed description: This is a musical score for piano, spanning measures 81 to 96. The score is written for a grand piano with a treble and bass staff. The key signature has one flat (B-flat). The tempo is marked 'poco rit.' (poco ritardando) starting at measure 84. The dynamics are marked as follows: *p* (piano) at measure 81, *fp* (fortissimo piano) at measures 82 and 83, *f* (forte) at measure 84, *mp* (mezzo-piano) at measure 85, and *mf* (mezzo-forte) at measure 93. The score includes various musical notations such as slurs, ties, and arpeggios. Measure 89 is specifically marked 'arpeggio'. The piece concludes at measure 96 with a final chord.

97 *mp*

98

99 *f*

100 *poco rit.*

101 *a tempo* *p*

102

103 *mf*

104

105 *p*

106 *f*

107 *mp* *f* *mp*

Detailed description: This page contains a musical score for piano, measures 97 through 107. The score is written for a grand piano with a treble and bass staff. The key signature has one flat (B-flat). Measure 97 starts with a mezzo-piano (*mp*) dynamic and features a steady eighth-note pattern in the bass. Measure 98 continues this pattern. Measure 99 introduces a forte (*f*) dynamic with a more complex melodic line in the treble and a moving bass line. Measure 100 shows a *poco rit.* (slightly ritardando) marking. Measure 101 returns to *a tempo* with a piano (*p*) dynamic. Measure 102 continues the piano texture. Measure 103 features a mezzo-forte (*mf*) dynamic with a melodic flourish in the treble. Measure 104 continues with a sixteenth-note pattern in the bass. Measure 105 is marked piano (*p*) and features a sixteenth-note pattern in the bass with a '6' (sixteenth) marking. Measure 106 is marked forte (*f*) and continues the sixteenth-note pattern. Measure 107 is marked mezzo-piano (*mp*) and features a sixteenth-note pattern in the bass with a '6' (sixteenth) marking. The score includes various musical notations such as slurs, ties, and dynamic markings.

108

mf *f*

109

p

110

111

112

fff

molto rit.

113 *Slow*

accel.

114 *faster*

115

116

rit.

117 a tempo

p

118

mf *p*

119

mf *p*

120

f *mp*

accel.

121 Rubato

122

123 124

For mm. 126-32, the chords on the second beat should be broken slower and more openly than the chords on count one or three.

125 - 126 127 128 129 130 131 132 *tr*

Pesante

ff accel. *f > mp* *mf > p* *mp > pp*

133 134 135 136 137 138 139 140

Dolce

f pp *p*

141 142 143 144 145 146 147 148

p *mf* *f*

149 *Dolce e rubato* 150 151 152

mp *poco rit.*

Sweetly in tempo

153 154 155 156

pp

157 158 159 in tempo 160

mf *rit.* *pp* *mf*

p

161 162 163 164

p

165 166 167 168

Emphasize A slightly

mf *fp* *fp*

poco accel.

169 170 171 172

Pesante con moto

ff

173 174 175 176

mf *ff* *mp* *rit.*

177 178 179 180 181 182 183 184 tr

ff *p* *f*

For mm. 185-200, the chords on the second beat should be broken slower and more openly than the chords on count one.

For mm. 185-7, the eighth note in the alto voice on count two is an added acciaccatura.

The musical score consists of six systems of piano and arpeggio textures. The first system (measures 185-192) features a complex texture with many beamed sixteenth notes and dotted rhythms. The second system (measures 193-200) continues this texture, with a trill (tr) in measure 196. The third system (measures 201-202) is marked *p* and features a *con moto* arpeggio. The fourth system (measures 203-204) is marked *f* and *p*. The fifth system (measures 205-206) is marked *mf*. The sixth system (measures 207-208) is marked *f* and *mp*. The score includes various dynamics (*ff*, *molto rit.*, *p*, *f*, *mp*, *mf*) and articulations (*con moto*, *arpeggio*). The key signature is one sharp (F#).

185 186 187 188 189 190 191 192

193 194 195 196 *tr* 197 198 199 200

ff *molto rit.*

201 *con moto* *arpeggio*

p

202

203

f *p*

204

mf

205

f *mp*

206 *mf*

207 *f*

208 *poco rit.* *ff*

209 - Haunting and open *a tempo* 210 *mp*

211 *mf*

212

213 *p*

214

215

216 *f*

217 *p*

218

219

220

221 *mf*

222 *mf*

223 *mf*

224 *mf* *poco rit.*

225 *fp* *f p*

226 *fp* *f p*

227 *f* *p* *mp* *mf*

228 *f* *ff* *poco rit.*

229 Heavy and distant 230 231 232

p

233 234

p

235 236

rit.

237 238

ff
poco accel.

239 240

fp
rit.

241 - *a tempo* 242 243

fp *f* *p* *f* *p*

244 245 246

f poco rit. *fp* accel. rit. *fp* accel. rit.

247 248

fp accel. -molto rit. *ff p* molto accel. -molto rit.

249 250 251 252

ff *f*

253 254 255 256 257

mp poco rit. *ff* molto rit. *pp*

Detailed description: This page contains a musical score for piano, measures 244 through 257. The score is written for a grand piano with a treble and bass staff. Measures 244-246 feature a complex rhythmic pattern with triplets and sixteenth notes, marked with dynamics *f*, *fp*, and *rit.*. Measures 247-248 show a transition with a *molto rit.* marking and a *ff p* dynamic. Measures 249-252 are characterized by a series of chords and arpeggios, marked with *ff* and *f*. Measures 253-257 conclude the section with a *mp* dynamic and a *poco rit.* marking, followed by a *ff* dynamic and a *molto rit.* marking, and finally a *pp* dynamic.

Adagio from Sonata III, BWV 1005

J. S. Bach, arr. J. Mathena

Adagio

2 3 4 5

6 7 8 9 10

11 12 13 14

15 16 17 18 19

20 21 22 23 24

pp *mp* *p* *mf* *mp* *ff* *mf* *f* *p* *f*

25 26 27 28

p *f*

29 30 31 32 33

p

34 35 36 37 38

mp *f* *sub. mf* *p*

39 40 41 42

f *p* *f* *p* *f*

43 44 45 46 47

mp *f* *mp* *p* *rit.*

tr *3* *tr*

This musical score is for a piano piece, spanning measures 25 to 47. It is written in a two-staff system (treble and bass clef). The key signature has one flat (B-flat). The score includes various dynamic markings: *p* (piano), *f* (forte), *mp* (mezzo-piano), *sub. mf* (subito mezzo-forte), and *rit.* (ritardando). Measure 25 starts with a piano (*p*) dynamic. Measures 26-27 feature a forte (*f*) dynamic. Measure 28 has a piano (*p*) dynamic. Measures 29-33 are marked piano (*p*). Measures 34-38 show a variety of dynamics: *mp* (34), *f* (35), *sub. mf* (36), *p* (37), and *p* (38). Measures 39-42 are marked with alternating *f* and *p* dynamics. Measures 43-47 show a progression from *mp* to *f* to *mp* to *p*, with a *rit.* marking at the end. The score includes several trills (*tr*) and a triplet of eighth notes in measure 39. The piece concludes with a final chord in measure 47.

Fuga from Sonata III, BWV 1005

J. S. Bach, arr. J. Mathena

Fuga

1 2 3 4 5 6 7 8

9 10 11 12 13 14

15 16 17 18 19

20 21 22 23 24 25 26

27 28 29 30 31 32 33 34

35 36 37 38 39 40 41

mp *mf* *p* *mf* *p* *f* *mp* *p* *f* *sub.f* *mp* *sub.f* *mf* *sub.f*

42 43 44 45 46 47

48 49 50 51 52 53 54 55

56 57 58 59

60 61 62 63 64 65

66 67 68 69 70 71

72 73 74 75 76 77

fp *f* *ff* *f* *mf* *f* *mf* *f* *mp* *f* *ff* *poco rit.* *poco accel.* *ff* *rit.* *A tempo* *mf* *f* *p*

This musical score consists of six systems of piano notation, each with a treble and bass staff. The measures are numbered 42 through 77. The notation includes various musical symbols such as notes, rests, slurs, and dynamic markings. The dynamics range from *pp* to *ff*. There are also performance instructions like *poco rit.*, *poco accel.*, *rit.*, and *A tempo*.

78 79 80 81 82 83

84 85 86 87 88

89 90 91 92

93 *a tempo* 94 95 96 97 98 99 100

101 102 103 104 105 106 107

108 109 110 111 112 113 114 115

mf *f* *ff* *f* *p* *fp* *mf* *p* *distantly*

poco rit.

Detailed description: This is a piano score for measures 78 through 115. The music is written for piano on a grand staff. Measures 78-83 show a melodic line in the right hand with eighth-note patterns and a bass line with eighth-note accompaniment. Measures 84-88 continue the melodic development. Measures 89-92 feature a more active right hand with sixteenth-note runs, while the bass line remains mostly static. Measure 92 has a fortissimo (*ff*) dynamic. Measure 93 is marked *a tempo* and *mf*. Measures 94-100 show a variety of dynamics including *f*, *p*, and *f*. Measures 101-107 continue with complex melodic and harmonic textures, including a *fp* (fortissimo piano) dynamic. Measures 108-115 conclude the section with a *p* (piano) dynamic and a *distantly* marking in measure 111.

116 117 118 119 120 121 122 123

mf *sub. f* *p*

124 125 126 127 128 129

mf *mp*

130 131 132 133 134 135 136

f *poco rit.*

137 - 138 139 140 141 142 143 144

mp *p* *mp* *sub. f*

145 146 147 148 149 150 151 152

mp *f*

153 154 155 156 157 158

mp *f*

159 160 161 162 163 164 tr

mf *f* poco rit.

165 (tr) 166 167 168 169 170

mf *p* *p*

171 172 173 174 175 176

mp *mf* *fp* *fp* *fp*

177 178 179 180 181 182

fp *fp* *fp* *f* *fp* *fp*

183 184 185 186 187

f *p* *mf* *f* *p* *mf*

188 189 190 191 192

p *mp* *p* *mp* *p*

193 194 195 196

ff *sub. mp*

197 198 199 200

f *ff rit.*

♩ = 120
al reverso *a tempo*
201 - 202 203 204 205 206 207 208 209

ff *mf* *mf* *mp*

210 211 212 213 214 215 216 217

mf *f*

218 219 220 221 222 223 224 225

f *f*

226 227 228 229 230 231 232 233

mp *sub. f*

234 235 236 237 238 239

Measures 234-239: Treble and bass staves. Measure 234 has a forte (*f*) dynamic. Measures 235-239 show various melodic lines with slurs and ties. Measure 237 has a fermata over the treble staff.

240 241 242 243 244

Measures 240-244: Treble and bass staves. Measure 244 includes a trill (*tr*) in the treble staff. Measure 243 has a *rit.* (ritardando) marking. Measure 244 ends with a double bar line.

245 - 246 247 248 249 250 251

Measures 245-251: Treble and bass staves. Measure 245 starts with a mezzo-piano (*mp*) dynamic. Measures 246-251 show various melodic lines with slurs and ties. Measure 246 has a piano (*p*) dynamic. Measure 247 has a mezzo-forte (*mf*) dynamic. Measure 251 has a piano (*p*) dynamic.

252 253 254 255 256 257

Measures 252-257: Treble and bass staves. Measure 256 has a forte (*f*) dynamic. Measure 257 has a mezzo-forte (*mf*) dynamic.

258 259 260 261 262 263 264

Measures 258-264: Treble and bass staves. Measure 258 has a mezzo-piano (*mp*) dynamic. Measure 263 has a forte (*f*) dynamic.

265 266 267 268 269 270

Measures 265-270: Treble and bass staves. Measure 266 has a mezzo-piano (*mp*) dynamic. Measure 270 has a forte (*f*) dynamic.

271 272 273 274 275

mp *f* *p* *mf* *p*

276 277 278 279 280

mp *p*

281 282 283

ff *mp*

284 285 286 287

f *ff rit.*

288 - a tempo 289 290 291 292 293 294 295 296

ff *mp* *mf* *f* *mp*

297 298 299 300 301 302

f *mf* *p*

303 304 305 306 307

f

308 309 310 311 312 313 314 315

mp *mf* *p*

316 317 318 319 320 321 322 323 324

f

325 326 327 328 329 330 331

p *sub. f* *mp* *sub. f* *mf* *fp* *f*

332 333 334 335 336 337 338 339

ff *f*

340 341 342 343 344 345

mf *f* *mf* *f* *mp*

Musical score for piano, measures 346-354. The score is written for piano (piano) and includes dynamic markings and performance instructions.

Measures 346-349: The right hand plays a series of eighth notes, while the left hand plays a series of eighth notes. The dynamics are *f* (forte) and *ff* (fortissimo).

Measures 350-354: The right hand plays a series of eighth notes, while the left hand plays a series of eighth notes. The dynamics are *fp* (fortissimo piano), *ff* (fortissimo), and *p* (piano). The tempo instruction *molto rit.* (molto ritardando) is indicated below the staff.

Gavotte en Rondeau from Partita III, BWV 1006

Gavotte en Rondeau

J. S. Bach, arr. J. Mathena

The musical score for "Gavotte en Rondeau" from Partita III, BWV 1006, is presented in two systems of 12 measures each. The key signature is G major (one sharp) and the time signature is 3/4. The piece is arranged by J. Mathena from the original by J.S. Bach.

Measure 1: Treble staff has a trill (tr) on G4. Bass staff has a half note G2. Dynamics: 1. *f*, 2. *p*.

Measure 2: Treble staff has a half note A4. Bass staff has a half note G2. Dynamics: 1. *sub. f*, 2. *sub. mp*.

Measure 3: Treble staff has a half note B4. Bass staff has a half note G2. Dynamics: 1. *f*, 2. *sub. f*.

Measure 4: Treble staff has a half note C5. Bass staff has a half note G2. Dynamics: 1. *f*, 2. *sub. f*.

Measure 5: Treble staff has a half note D5. Bass staff has a half note G2. Dynamics: 1. *f*, 2. *sub. f*.

Measure 6: Treble staff has a half note E5. Bass staff has a half note G2. Dynamics: 1. *f*, 2. *sub. f*.

Measure 7: Treble staff has a half note F#5. Bass staff has a half note G2. Dynamics: 1. *f*, 2. *sub. f*.

Measure 8: Treble staff has a half note G5. Bass staff has a half note G2. Dynamics: 1. *f*, 2. *sub. f*.

Measure 9: Treble staff has a half note A5. Bass staff has a half note G2. Dynamics: 1. *f*, 2. *sub. f*.

Measure 10: Treble staff has a half note B5. Bass staff has a half note G2. Dynamics: 1. *f*, 2. *sub. f*.

Measure 11: Treble staff has a half note C6. Bass staff has a half note G2. Dynamics: 1. *f*, 2. *sub. f*.

Measure 12: Treble staff has a half note D6. Bass staff has a half note G2. Dynamics: 1. *f*, 2. *sub. f*.

Measure 13: Treble staff has a half note E6. Bass staff has a half note G2. Dynamics: 1. *f*, 2. *sub. f*.

Measure 14: Treble staff has a half note F#6. Bass staff has a half note G2. Dynamics: 1. *f*, 2. *sub. f*.

Measure 15: Treble staff has a half note G6. Bass staff has a half note G2. Dynamics: 1. *f*, 2. *sub. f*.

Measure 16: Treble staff has a half note A6. Bass staff has a half note G2. Dynamics: 1. *f*, 2. *sub. f*.

Measure 17: Treble staff has a half note B6. Bass staff has a half note G2. Dynamics: 1. *f*, 2. *sub. f*.

Measure 18: Treble staff has a half note C7. Bass staff has a half note G2. Dynamics: 1. *f*, 2. *sub. f*.

Measure 19: Treble staff has a half note D7. Bass staff has a half note G2. Dynamics: 1. *f*, 2. *sub. f*.

Measure 20: Treble staff has a half note E7. Bass staff has a half note G2. Dynamics: 1. *f*, 2. *sub. f*.

Measure 21: Treble staff has a half note F#7. Bass staff has a half note G2. Dynamics: 1. *f*, 2. *sub. f*.

Measure 22: Treble staff has a half note G7. Bass staff has a half note G2. Dynamics: 1. *f*, 2. *sub. f*.

Measure 23: Treble staff has a half note A7. Bass staff has a half note G2. Dynamics: 1. *f*, 2. *sub. f*.

Measure 24: Treble staff has a half note B7. Bass staff has a half note G2. Dynamics: 1. *f*, 2. *sub. f*.

25 26 27 28

mf

29 30 31

mf

32 33 34 35

mp *f* *mp*

36 37 *tr* 38 39 *tr* 40

f *sub. f*

41 42 43 44

tr *sub. f*

45 46 47 48

mp *f* *mf*

49 50 51 52

p *mp* *mf* *p* *mf* *mp*

Detailed description: This musical score is for a piano piece, spanning measures 25 to 52. The key signature is three sharps (F#, C#, G#) and the time signature is 4/4. The score is written for piano with a grand staff (treble and bass clefs). Measures 25-28 show a melodic line in the right hand and a rhythmic accompaniment in the left hand, marked *mf*. Measures 29-31 continue this pattern. Measures 32-35 feature a more complex melodic line with trills and slurs, with dynamics *mp*, *f*, and *mp*. Measures 36-40 include trills and a crescendo leading to *sub. f*. Measures 41-44 show a melodic line with trills and a crescendo leading to *sub. f*. Measures 45-48 feature a melodic line with trills and a crescendo leading to *mf*. Measures 49-52 show a melodic line with trills and a crescendo leading to *mp*. The score includes various musical notations such as trills, slurs, and dynamic markings.

53 54 55 56

57 58 59 60

61 62 63 64

65 66 67 68

69 70 71 72

73 74 75 76 77

78 79 80 81

f *p* *f* *p* *f* *p* *f* *mp*

mf *sub. p* *mp*

f *f*

tr *sub. f* *fp*

fp *f* *p* *f*

mf *mp* *f*

f *p* *mf* *p*

Detailed description: This is a musical score for piano, spanning measures 53 to 81. The key signature is three sharps (F#, C#, G#) and the time signature is 4/4. The score is written for both hands on a grand staff. Measures 53-56 show a series of eighth-note patterns in the right hand, often beamed together, with the left hand providing a steady eighth-note accompaniment. Dynamic markings include *f* (forte), *p* (piano), and *mp* (mezzo-piano). Measures 57-60 continue the eighth-note patterns, with a *mf* (mezzo-forte) marking in measure 59. Measures 61-64 feature a trill (*tr*) in the right hand in measure 63, followed by a *f* (forte) marking. Measures 65-68 show a *sub. f* (sub-forte) marking in measure 66 and a *fp* (fortissimo piano) marking in measure 68. Measures 69-72 include a *fp* marking in measure 69 and a *mf* marking in measure 72. Measures 73-77 show a *mf* marking in measure 73, a *mp* marking in measure 74, and a *f* marking in measure 76. Measures 78-81 conclude the passage with a *f* marking in measure 79, a *p* marking in measure 80, and a *mf* marking in measure 80. The score includes various musical notations such as beams, slurs, and dynamic markings.

82 83 84 85

f *p*

86 87 88

f *p*

89 90 91 92

mf *p* *mf* *mp* *f*

93 94 95 96

tr *sub. f*

97 98 99 100

sub. f *p*

rit.

Menuet I from Partita III, BWV 1006

J. S. Bach, arr. J. Mathena

Menuet I

1. *mf*
2. *p*

9 *mf* 10 11 12 13 *mp* 14 *f* 15 16 17 18 *mp*

19 20 21 22 23 24 25 26 *f* *poco rit.*

27 *a tempo* 28 29 30 31 32 33 34 *mp* *f* *rit.*

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